

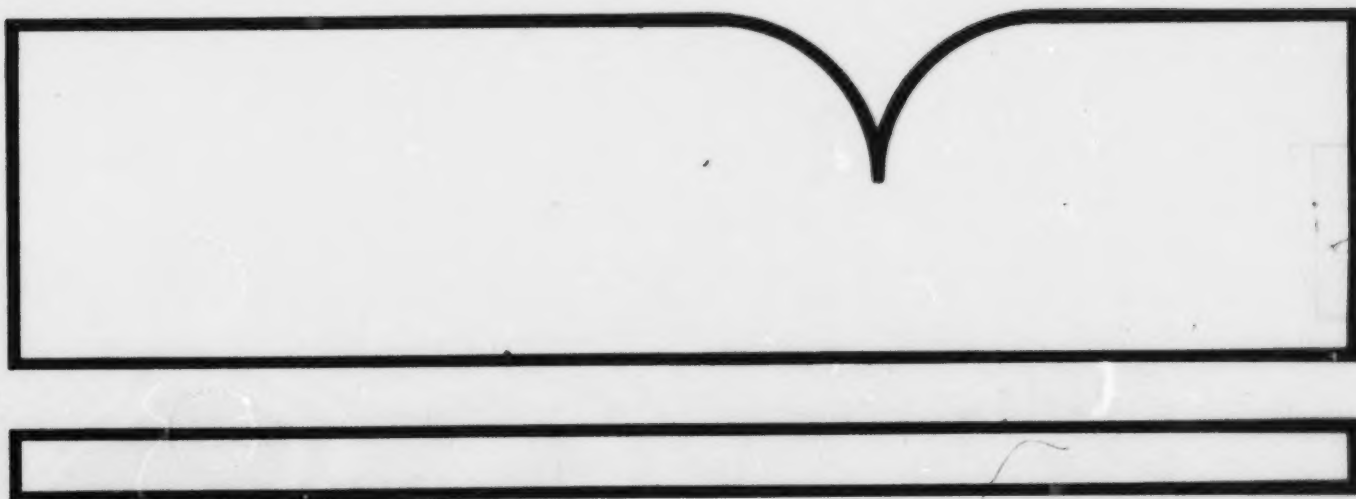
The Revised Organic Chemical Producers
Data Base System

Radian Corp.
Austin, TX

Prepared for

Industrial Environmental Research Lab.
Cincinnati, OH

Jul 80



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National Technical Information Service

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THE REVISED ORGANIC CHEMICAL
PRODUCERS DATA BASE SYSTEM

by

G. E. Wilkins, C. H. Tucker, and E. D. Gibson

Radian Corporation
Austin, Texas 78766

Contract No. 68-03-2623

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INDUSTRIAL ENVIRONMENTAL RESEARCH LABORATORY
Office of Research and Development
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Cincinnati, Ohio 45268

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16. ABSTRACT This report describes the revised Organic Chemical Producers Data Base (OCPDB), an automated chemical information system developed for the U.S. Environmental Protection Agency (EPA). Improvements have been made in two ways: (1) expansion of the data base to include more chemicals and more information about each and (2) implementation of the system through a data base management system. The revised data base includes almost 600 chemicals and more than 1300 producers. Chemicals are described by Chemical Abstracts Services (CAS) registry number, Wiswesser Line Notation (WLN), industrial process descriptions, chemical uses, synonyms, toxicity, economic data, and producers. Priority Pollutants identified as a result of NRDC vs. EPA are marked and process descriptions are cross-referenced with another EPA reference source, The Industrial Process Profiles for Environmental Use (IPPEU). Locations of producers are described by city, state, EPA region, and river basin. The chemicals produced at each location are listed, along with nameplate capacities, when available. Retrieval is possible through use of "key" data elements: chemical name, synonyms, OCPDB number, CAS numbers, WLN, priority pollutant markers, process ID number, IPPEU numbers, producer company name, parent company name, city, state, river basin, and EPA region.		
17. KEY WORDS AND DOCUMENT ANALYSIS		
a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Chemicals - Organic compounds Chemical Industry Data Bases Data Management	Industrial organic chemicals-production; Industrial organic chemicals-processes; Industrial organic chemicals-toxicity; Industrial organic chemicals-uses; Data base management systems.	07/C 09/B
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FOREWORD

When energy and material resources are extracted, processed, converted, and used, the related polluttional impacts on our environment and even on our health often require that new and increasingly more efficient pollution control methods be used. The Industrial Environmental Research Laboratory -Cincinnati (IERL-Ci) assists in developing and demonstrating new and improved methodologies that will meet these needs both efficiently and economically.

The Organic Chemical Producers Data Base (OCPDB) was developed to provide easy access to data on organic chemicals and their production. It provides a wide range of report capabilities on chemical-related data such as uses, toxicity and production processes; economic data such as production volume and sales; and producer-related data such as company names and plant locations.

David G. Stephan
Director
Industrial Environmental Research
Laboratory - Cincinnati

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ABSTRACT

This report describes the revised Organic Chemical Producers Data Base (OCPDB), an automated chemical information system developed for the U.S. Environmental Protection Agency (EPA).

Improvements have been made in two ways: 1) expansion of the data base to include more chemicals and more information about each and 2) implementation of the system through a data base management system.

The revised data base includes almost 600 chemicals and their more than 1300 producers. Chemicals are described by Chemical Abstracts Services (CAS) registry number, Wiswesser Line Notation (WLN), industrial process descriptions, chemical uses, synonyms, toxicity, economic data, and producers. Priority pollutants identified as a result of NRDC vs. EPA are marked and process descriptions are cross-referenced with another EPA reference source, The Industrial Process Profiles for Environmental Use (IPPEU) Chapter 6. Locations of producers are described by city, state, EPA region, and river basin. The chemicals that are produced at each location are listed, along with nameplate capacities, when available.

Retrieval is possible through use of any of a number of "key" data elements: chemical name, synonyms, OCPDB number, CAS numbers, WLN, priority pollutant markers, process ID number, IPPEU numbers, producer company name, parent company name, city, state, river basin, and EPA region.

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SECTION 1

INTRODUCTION

This interim report describes the revised Organic Chemical Producers Data Base (OCPDB), an automated chemical information system developed for the U.S. Environmental Protection Agency (EPA). The original Organic Chemical Producers Data Base (OCPDB) was developed in 1976 for EPA's Industrial Environmental Research Lab in Cincinnati under EPA Contract No. 68-02-1319, Task 51. The computerized data base established provided easy access to data concerning organic chemicals in a format that facilitated comparisons of various aspects of the industry. It served as a tool for understanding the organic chemical industry, for guiding EPA work in a knowledgeable and systematic manner, and for increasing efficiency of work efforts.

The original OCPDB consisted of a matrix of about 300 chemicals and their 610 production sites. The chemical list was begun with the one compiled by Monsanto Research Corporation under EPA Contract No. 68-02-1320, Task 17. Several additions were made to complete the list. The basic petrochemical feedstocks were added: toluene, xylene, ethylene, propylene, C₂-C₄ hydrocarbons. Also added were chemicals that had production volumes equal to or greater than those chemicals already included (about 10 million pounds per year). Prioritized lists of toxic chemicals were examined, and chemicals not in the data base were added. Then the list was compared to the list generated in the Source Assessment Program (EPA Contract No. 68-02-1874) to check for omissions.

Production sites for the chemicals were obtained from the open literature, and this file formed the other dimension of the computerized matrix. Finally, adjectives or descriptors (listed in Table 1) were added for both chemicals and production sites.

The value of establishing the data files in this way was in the ability to sort, file, compare, and combine, checking for useful relationships. Searches and combinations of searches within the data base provided useful reports and listings. Possible searches included identifying all the chemicals with specific chemical structures, identifying all production sites producing a particular product slate, and conducting any or all of the searches within combinations of states or EPA regions.

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TABLE 1. ADJECTIVES ADDED TO THE
ORIGINAL OCPDB MATRIX

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Chemical Adjectives

Production Site Adjectives

Toxicity
Production Volume
Cost
Emission Factors
Wiswesser Line Notation
IPPEU Numbers (ECIP)^a

Process Route
State
EPA Region
Production Site Classification^b

^aAt the time the original OCPDB was established, the Industrial Process Profiles for Environmental Use were in preparation. It was at that time called the Environmental Catalog of Industrial Processes.

^bClassifications were with respect to raw material, product slates, and refinery associations.

Since 1977 Radian has updated the data in the OCPDB and increased the size and capabilities of the system. This interim report describes progress made toward this objective. The revised OCPDB will be fully operational early in 1979. While this report describes the basic form and substance of the system, it is not meant to imply that the system is static. Changes, expansions, and improvements are expected, as the needs arise. The new system is expected to be even more responsive to changes in program needs and will allow more flexibility in operation.

The remaining sections of this report describe in more detail the system contents and its workings. Section 2 is a summary provided for those who want a quick overview of the OCPDB. A description of the data contained in the data base is presented in Section 3. The system mechanics and structure are detailed in Section 4. The capabilities of the system and an understanding of its uses can best be gained in Section 5, which contains sample reports and example access modes. Several long tables and technical sections have been appended to facilitate reading the report. Appendix A is a listing of OCPDB chemicals; Appendix B is a listing of OCPDB producers. River basins in which OCPDB producers are located are listed in Appendix C.

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SECTION 2

SUMMARY

The objective of revising and improving the original OCPDB was met by adding more chemicals to the files, providing additional descriptive information for each OCPDB chemical, and by implementing the system through a data base management system: System 2000®.

The data base has been expanded to include almost 600 chemicals, their associated information, producers, and producer-related information. A complete listing of OCPDB chemicals is included in Appendix A.

New adjectives or descriptors were added to describe chemical entries. These include Chemical Abstracts Services (CAS) registry numbers, process routes, additional toxicity data, use descriptions, sales, and synonyms. New data files describing production sites include parent company name and river basins. The data files from the original OCPDB have been updated in cases in which new data have become available.

Table 2 lists all of the data files included in the OCPDB system. It also shows the number of unique data items, the total number of occurrences of data items within a file, and the amount of computer storage required for each file.

The revised data base has been implemented with a data base management system (DBMS): System 2000®. A DBMS was chosen to eliminate the inefficiencies in the original system and to increase its capabilities. System 2000® was selected because it is well-proven and widely used in commercial and governmental institutions, including EPA. It is offered by many time-sharing services. The data base was loaded on a time-sharing system which offered System 2000® and other useful software packages: Boeing Computer Services. However, because of the widespread availability of System 2000®, it could be loaded on any of a number of computer centers which have the System 2000®.

*System 2000 is a registered trademark of MRI Systems Corporation.

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TABLE 2. DATA TALLY FOR THE OCPDB^a

	No. of Unique Values	No. of Occurrences	Total Computer Storage Volume in No. of Bytes
Entry Type	2	1,944	1,944
Entry ID	1,621	1,944	8,720
Chemical Related Data			
OCPDB Chemicals	597	597	14,925
CAS Numbers	518	525	5,250
New Chemical Markers	1	224	224
Priority Pollutant Markers	1	135	135
Wiswesser Line Notation	500	506	20,240
Process ID	8	1,131	2,262
Process Description	640	1,133	28,325
IPPEU Numbers	224	318	954
Uses Description	1,794	2,763	138,150
Use Volume	b	784	6,272
Use by % of Consumption	b	711	4,266
Use IPPEU Numbers	90	106	318
Synonyms	5,285	5,426	217,040
Toxicity Data			
NIOSH Registry Number	b	439	3,512
LD ₅₀ Mode	6	335	1,005
LD ₅₀ Species	6	335	1,005
LD ₅₀ Amount	b	335	2,680
LD ₅₀ Units	4	597	5,970
LC ₅₀ Mode	3	134	402
LC ₅₀ Species	9	134	402
LC ₅₀ Amount	b	135	1,080
LC ₅₀ Units	37	597	5,970
AOTX	b	170	2,496
TLV	b	185	1,850
TLV Units	5	597	5,970
Sax Ratings	b	1,470	1,470
Economic Data			
Year	15	649	1,298
Production Volume	b	287	2,296
Unit Cost	b	348	2,784
Sales	b	176	1,408
Producer Related Data			
Plant ID	1,246	3,703	18,515
Plant Capacity	b	1,190	10,710
Company Names	615	1,346	33,650
Cities	748	1,346	26,920
States	49	1,346	2,692
River Basin	321	1,082	32,460
River Basin Code	326	1,081	8,648
Parent Companies	182	340	8,500
TOTALS	14,853	36,604	632,718 ^c

^aAs of the date of this interim report.

^bFor non-key data files, the number of unique values is not known.

^cWith indices and other internal data base tables, the total number for the entire data base is approximately 2,000,000 bytes.

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The hierarchical structure of the system is shown in Figures 1 and 2. Its hierarchical structure enables the DBMS to handle variable amounts of data very efficiently. Requested data items can be retrieved directly, without searching the entire file each time. Direct retrieval was not possible in the linear system of the original OCPDB.

Flexibility in reporting is another major improvement in the system. Both interactive and batch modes of access are possible, and additional report formats may be defined at any time. Analytical report capabilities such as the "minimum sites search" have been retained. And, these capabilities have been expanded through the possible linking of the DBMS to other data handling systems as discussed in Section 4.

Three major types of direct retrieval are possible using the OCPDB: information about chemical products, information about producers, and relationships between producers and products. Retrieval is possible through use of any of a number of "key" data elements which are listed in Table 3. Using these retrieval "keys" to access the files, the sorting, filing and reporting possibilities are virtually limitless.

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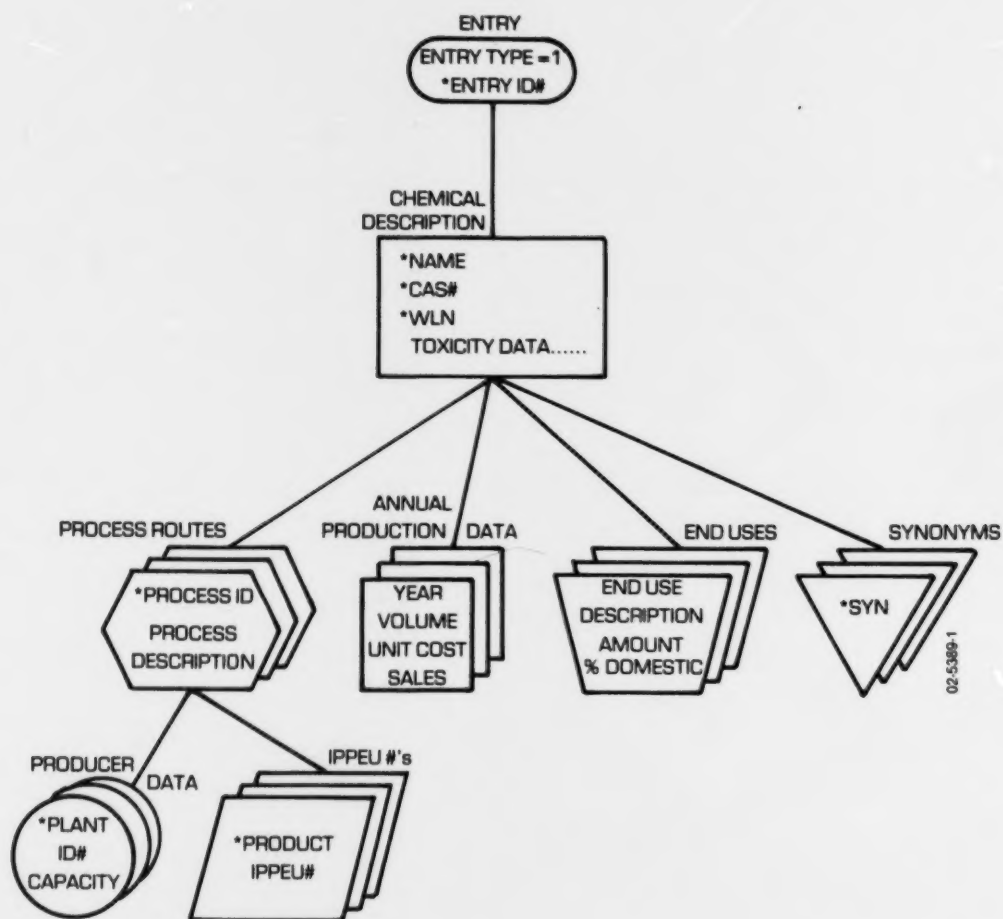
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*KEY DATA ELEMENT

Figure 1. Hierarchical structure of the chemical data files of the OCPDB.

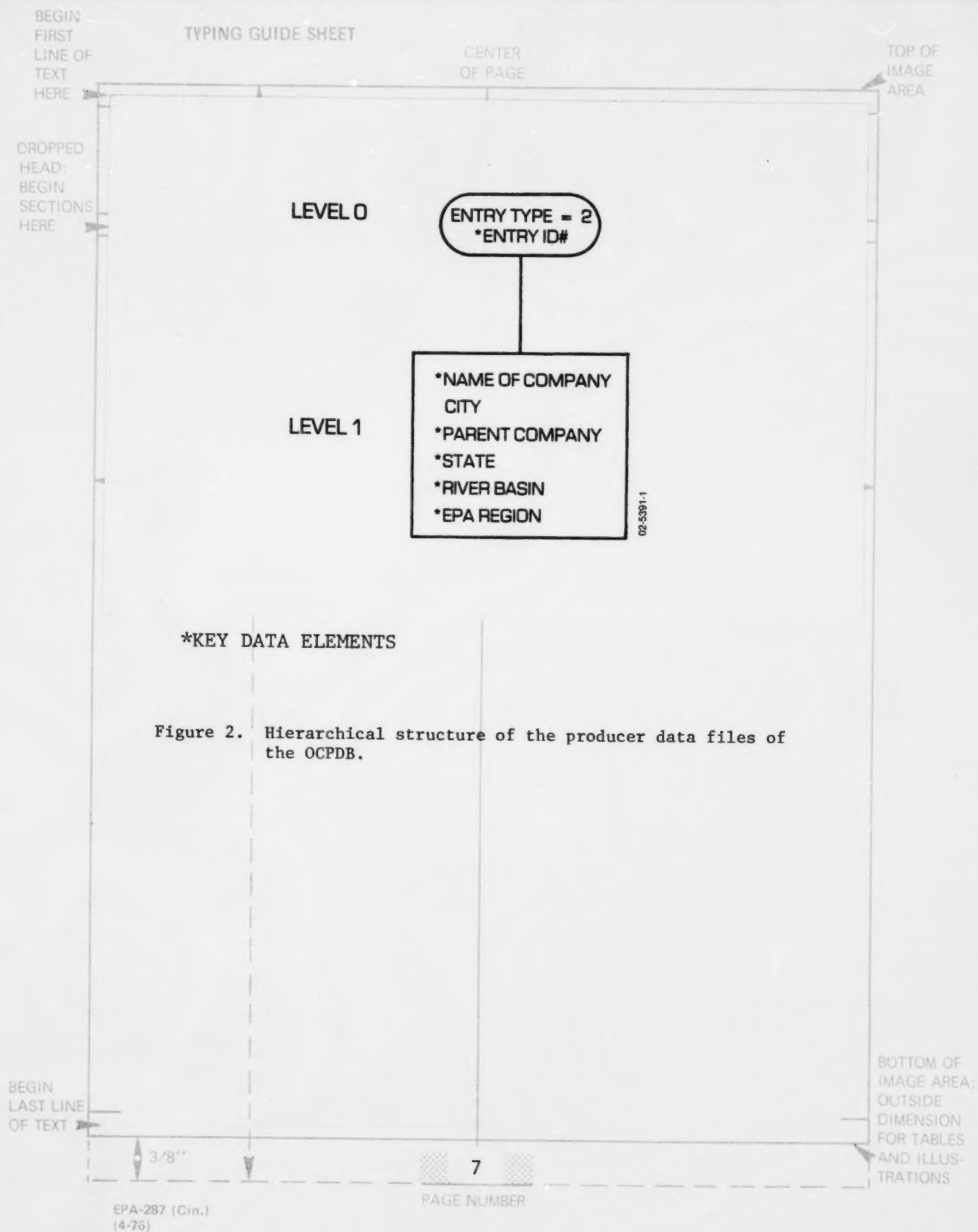
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TABLE 3. LIST OF KEY DATA ELEMENTS
IN OCPDB

Chemical Product Entries

Name
OCPDB Number
CAS Number
Wiswesser Line Notation
Use Description
Original OCPDB Chemical Indicator
Priority Pollutant Indicator
Synonym
Process OCPDB Number
Process IPPEU Number

Producer Entries

OCPDB Number
Parent Company Name
Producing Company Name
City
State
River Basin
EPA Region

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SECTION 3

DESCRIPTION OF DATA FILES

The OCPDB is composed of chemical-related and producer-related information in the form of data items compiled in data files. The contents of each of these data files is described in this section. The discussion is divided into two parts: Chemical Related Data and Producer Related Data. The contents of each file are presented. Data contained in the files were taken from the References.

CHEMICAL RELATED DATA

Almost 600 chemical products are included in the OCPDB. There were four main sources from which the OCPDB list of chemicals was compiled: the original OCPDB, the criteria pollutant list which resulted from NRDC versus EPA, a list of additions requested by OAQPS, and the list of chemicals included in the data base compiled by Catalytic, Inc. A complete listing of OCPDB chemicals and processes is included in Appendix A. The original OCPDB chemicals and the criteria pollutants are flagged with specific indicators. Data describing the chemical products included in the data base consist of toxicity, unit price, U.S. production value, sales, Chemical Abstracts Services (CAS) registry number, Wiswesser Line Notation, process descriptions, IPPEU process numbers, uses, and synonyms. Each of these files is described below.

Chemical and Process Numbers

The first items to appear on nearly all of the computer-generated reports are the OCPDB chemical numbers. All of the data described above are related to specific chemical entries through a unique number assigned by Radian to every chemical product. The number consists of six digits. The first four digits indicate a specific chemical product; the last two indicate a specific process for making that chemical. This system can best be described through an example. A partial listing of chemicals and processes by name and OCPDB numbers is shown in Table 4.

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TABLE 4. PARTIAL LISTING OF OCPDB CHEMICALS AND PROCESSES

CHEMICAL PROCESSES 7/8/12/06			IPPEU NOS
ID	CHEMICAL	PROCESS	
00100			
00200			
00300			
00400			
00500			
00600	# ETHYLENE	PYROLYSIS OF ETHANE/PROPANE	
00700	* 51	PYROLYSIS OF GAS OIL OR NAPHTHA	
00800	* 52		
00900	# ETHYLENE CARBONATE	ETHYLENE OXIDE AND CARBON DIOXIDE	157
01000	* 51		
01100	* 1790 0	ETHYLENE & HYPOCHLOROUS ACID	136
01200	* 51		
01300	* 1800 0	ETHYLENE DICHLORIDE & AMMONIA	133
01400	* 51		
01500	* 1810 0	ADDITION OF BROMINE TO ETHYLENE	113
01600	* 51		
01700	* 1830 0	HYDRATION OF ETHYLENE OXIDE FROM OXIDATION OF ETHYLENE	144
01800	* 51	ETHYLENE & ACETIC ACID/ THEN HYDROLYSIS	
01900	* 51	ETHYLENE & HYPOCHLOROUS ACID	
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The chemical numbers (first four digits in the "ID" column) were assigned alphabetically and were correlated with the numbers assigned by Catalytic, Inc. in the data base compiled for the Effluent Guidelines Division of EPA.

The chemical names are preceded with symbols (#) if they are one of the group of original OCPDB chemicals. A "P" precedes those chemicals which are priority pollutants resulting from NRDC vs. EPA.

Process description code numbers (digits 5 and 6) were assigned arbitrarily, beginning with the number 51. A 00 designation in the fifth and sixth digit places indicate an unspecified process. Process descriptions are short, one-line summaries of industrial processing methods taken from the technical literature (See References). They do not include methods used at the bench scale or laboratory level.

Synonyms

Various systems of chemical nomenclature are in use today. Consequently, most chemicals have several synonymous names. The OCPDB has been designed to accommodate this situation; chemicals can be accessed by their synonyms. Synonyms were obtained from several sources: a listing from a data base compiled for EPA by Fein-Marquart, listings from two computer-assisted information systems (8,23), the NIOSH Registry of Toxic Effects of Chemical Substances (11), the Merck Index (43), and the Condensed Chemical Dictionary (9).

Chemical Abstracts Services Registry Number

The Chemical Abstracts Services (CAS) Registry Numbers have been included for the OCPDB chemicals. CAS Registry Numbers are unique nine digit numbers used to identify specific chemicals. They are widely used in many information and data base services. A variety of such services may be accessed by this number which permits identification independently of the nomenclature system used.

Wiswesser Line Notation

Wiswesser Line Notation (WLN) is a line formula chemical notation which describes the structural formula of a chemical compound in a series of letters and numbers. The primary purpose for including WLN in the OCPDB is to allow automated retrieval of chemicals by structure and to provide functional group searching capabilities. This type of coding system is valuable to the technically trained user in finding similar chemical structures. Approximately 95 percent of the OCPDB chemicals have been assigned WLN codes. Sources were the NIOSH Registry of

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Toxic Effects of Chemical Substances (11), and the CRC Atlas of Spectral Data and Physical Constants for Organic Compounds (13). For those chemicals for which WLN could not be found, it was derived using the rules described in the CRC Atlas.

Industrial Process Profiles for Environmental Use

The Industrial Process Profiles for Environmental Use (IPPEU) is a multivolume collection of information concerning industrial processing and environmental impact. Each chapter contains information about one specific industry in a series of numbered process descriptions; Chapter 6 is "The Industrial Organic Chemicals Industry." IPPEU process numbers are assigned to OCPDB process descriptions to provide a cross reference to the document. IPPEU process numbers are also assigned to chemical products in the use files when processes for their manufacture are included in Chapter 6.

Toxicity

Toxicity information is essential in assessing the environmental impacts of industrial organic chemical production. The OCPDB contains several categories of toxicity information:

- Lethal Dose Fifty Percent (LD_{50}),
- Lethal Concentration Low (LC_{50}),
- Aquatic Toxicity (AQTX),
- Threshold Limit Values (TLVs), and
- Toxicity Hazard Rating

LD_{50} s (the lowest dose required to kill 50 percent of a test population) are measures of toxicity requiring knowledge and experience to interpret accurately. The value is significant as a relative indication of toxicity when compared with an LD_{50} of a chemical with known toxicity obtained under identical test conditions. The LD_{50} information in the OCPDB specifies the dosage used, the mode of entry, and the experimental animal used. Data for rats were used when a choice was available; in some cases it was necessary to use mouse and guinea pig data.

The LC_{50} specifies the lowest concentration of a substance in air which has caused death in humans or animals. As with LD_{50} information, the experimental animal, mode of entry and dosage are specified for each chemical.

Aquatic toxicity ratings are used to indicate toxicities of substances to aquatic life, an important consideration in assess-

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ing water pollution. The format for this entry is "AQTX: TLM 96," where TLM 96 is defined as the 96-hour static or continuous flow standard protocol. The toxic concentrations (in ppm) for the AQTX data are specified, where possible.

The Threshold Limit Values (TLVs) are reported for each chemical, when possible, in units of parts per million, milligrams per kilogram, or milligrams per cubic meter. The TLV is an upper limit or time weighted average of a concentration recommended by the American Conference of Governmental Industrial Hygienists (ACGIH) for control of occupational exposures. The TLV may be followed by a notation indicating potential hazard from exposure to skin.

All LD₅₀, LC₅₀, AQTX, and TLV data were obtained from the NIOSH Registry of Toxic Effects of Chemical Substances (11). The NIOSH Registry Number is included as a cross-referencing aid. The NIOSH numbers consist of two alphabetical characters followed by five numerical characters.

The remaining toxicity information consists of the Toxicity Hazards Rating obtained from Sax Dangerous Properties of Industrial Materials (29) and is presented in a concise manner for use by an informed layman.

The categories used for the Toxicity Hazard Rating are acute local, acute systemic, chronic local, and chronic systemic. Acute and chronic describe the relative exposure pattern, although the absolute duration of exposure cannot be inferred. Acute exposures could last for seconds or hours, while chronic exposures can be continuous or repetitive and last for several days or longer. Local effects concern only the skin or mucous membranes where contact occurs, while systemic effects are more generalized over the entire body.

Under each of these categories several entries exist which contain specific information. These entries describe the route of absorption a chemical would follow (i.e., ingestion, inhalation, and skin absorption), or if the chemical is an irritant or allergen. For each entry where information is available, a number, zero to three, is assigned to describe the severity of the effect. Zero means the chemical has been found non-toxic with that specific type exposure, and a one means the effects are slight and will disappear after exposure ends. Two is a broad class where the effects are "moderate" but not enough "to cause death or permanent injury." When death or permanent injury can occur with a small exposure, the number three is given. When no entry is presented the effects are unknown or are of questionable validity.

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Economic Data

OCPDB economic information includes overall U.S. industry chemical production volumes, unit cost, and sales.

Production information was obtained from Chemical Economics Handbook (35), Chemical Marketing Reporter (20), and the U.S. International Trade Commission's Synthetic Organic Chemicals: United States Production and Sales, 1976 (40). Only the most up-to-date production information available was included. Most data represent information found for the years 1975 to 1977. Unit cost data were taken from a December 1977 issue of Chemical Marketing Reporter. Sales data were only included when reported as such by the sources consulted. No attempt was made to calculate sales from other values. The sales data were considered unrelated to production and consumption values which do not account for import, export, and change in stocks.

Uses

Use patterns are important in accurately describing the disposition of industrial organic chemicals. Quantitative use data are quite valuable, and, wherever possible, this information was included in the OCPDB. These statistics are useful in assessing the probability of emissions to the environment and the chances for human exposure to the specific chemicals under consideration. Where quantitative data were unavailable, qualitative use descriptions were included.

Both quantitative and qualitative use data in the OCPDB include the specific use(s) for a given chemical and, if possible, an IPPEU (Chapter 6) numerical code for the process associated with the particular use. Additional quantitative data are 1) the amount of a chemical used in a particular application, and 2) the percentage of domestic use associated with a given chemical.

Use data were obtained from End Use Patterns for Significant Organic Chemicals (42), Chemical Economics Handbook (35), The Condensed Chemical Dictionary (9), Faith, Keyes, and Clarks' Industrial Chemicals (22), and Merck Index (43).

PRODUCER RELATED DATA

Chemical Producers included in the OCPDB are those that produce OCPDB chemicals. A complete listing of OCPDB producers is included in Appendix B. The OCPDB chemicals produced by each producer are listed as a product slate, thereby forming the link between chemicals and producers. The product slates listed are restricted to OCPDB chemical products. Producers are further

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described with geographic location data, capacity, processes used, and parent company name. The major source of this information was the 1978 Directory of Chemical Producers (34).

Production Process and Capacity

Data are included concerning processes used in specific producing locations, when available in the technical literature. Also included when available are production capacities for each product. Process-specific production capacities are included, if possible. Process identifications and capacities were retrieved from the sources listed in the References.

Geographic Location

The geographical location of each OCPDB producer is essential to any environmental assessment of industrial organic chemical production in the U.S. The data base includes geographic locations of individual producers (plant location by city, state, and EPA Region). Locations of producers were obtained from the 1978 Directory of Chemical Producers (34).

Also presented for each producer is its associated river basin, identified to the sub-region level. U.S. Geological Survey (USGS) maps were used to determine river basin codes for individual producer locations. These river basin codes were then correlated with their appropriate river basins as obtained from the USGS index of river basin codes. There are a few producers for which river basin locations were not defined. Some of these producers were located in cities in which more than one waterway existed. There are a few others which were located in cities which were not found on the USGS maps. A listing of river basins in which OCPDB producers are located is included in Appendix C.

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MECHANICS OF THE OCPDB SYSTEM

It was decided that a data base management system (DBMS) was necessary for the revised OCPDB because the size of the data base made the original methods of linear programming highly inefficient. The use of a DBMS also offered increased flexibility and more capabilities for retrieving, reporting, and analyzing data.

The DBMS chosen was System 2000®. There were several reasons for its selection:

- It is a very efficient DBMS.
- It has been thoroughly tested and proven.
- It is widely used among commercial and governmental institutions, including EPA.
- It is designed with the user (even a nontechnical user) in mind.

System 2000® is offered by a number of time-sharing services. Boeing Computer Services was chosen for implementation of the OCPDB because of their reasonable charges and because of the other data systems offered which might be used in conjunction with System 2000®. The data base, while it is currently loaded at Boeing's facility in Seattle, could be implemented on any other computer systems which offer System 2000® as an option.

Programming activities for this project have been minimized by the use of System 2000®. The necessary software development work consisted of the following tasks:

- The analysis and design of a System 2000® data base to optimally satisfy the data storage and rational demands of the OCPDB.
- The development of software to validate data to be loaded into the OCPDB.

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- Development of software to initially load the data base.
- Design and implementation of a basic set of retrieval capabilities.
- Design of update procedures which will insure the continued growth and utility of the OCPDB.

The remainder of this section presents the structure and definition of the data base which has resulted from the described work. Information retrieval capabilities available with the revised OCPDB are also discussed. Special attention is given to a particular analytical capability of the OCPDB, the "minimum site search."

SYSTEM STRUCTURE

The OCPDB, as implemented under System 2000®, is organized into two types of entries with a link between them. The two types of entries are those relating to chemical products and those relating to producing plants. Figures 3 and 4 illustrate the hierarchical structures of these two types of entries. Within these entries, data are organized into a logical hierarchy. Hierarchical levels are numbered from zero (the level of the entry), increasing as shown in the figures.

In the OCPDB hierarchy the Level 0 contains only two data elements: a unique identifier assigned by Radian for the entry and a type indicator, to distinguish chemical products from producers. Below the top level, the structures of the two types of entries differ considerably.

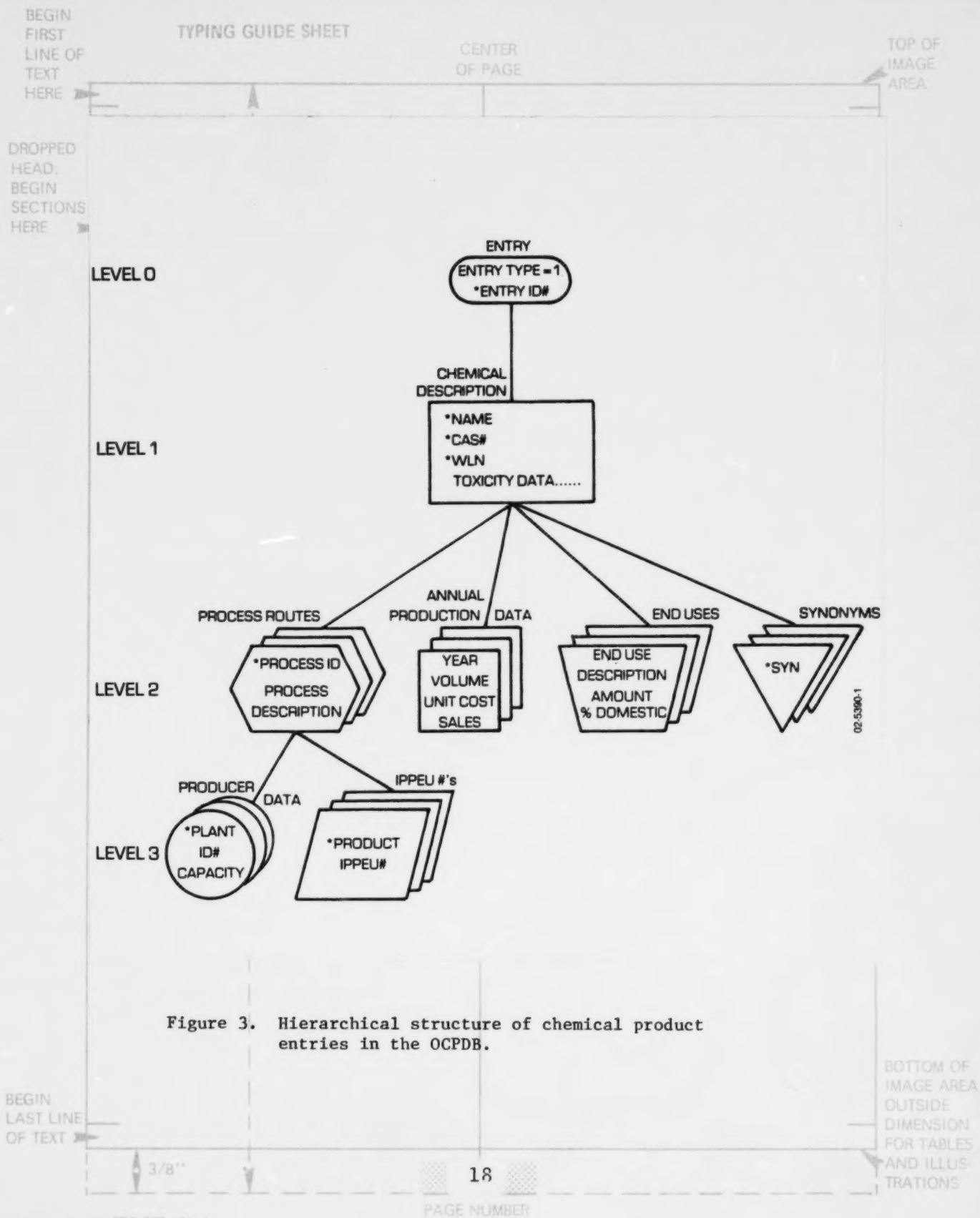
Each chemical product entry contains up to three additional levels of data (see Figure 3). Level 1 contains all descriptive and identifying data, including toxicity data. Key (searchable) data elements in this set include the product name, Chemical Abstracts Services (CAS) registry number and Wiswesser Line Notation (WLN). Toxicity information (also in Level 1) includes LD₅₀, LC₅₀, aquatic toxicity, threshold limit value, and qualitative ratings of toxicity from Sax (29).

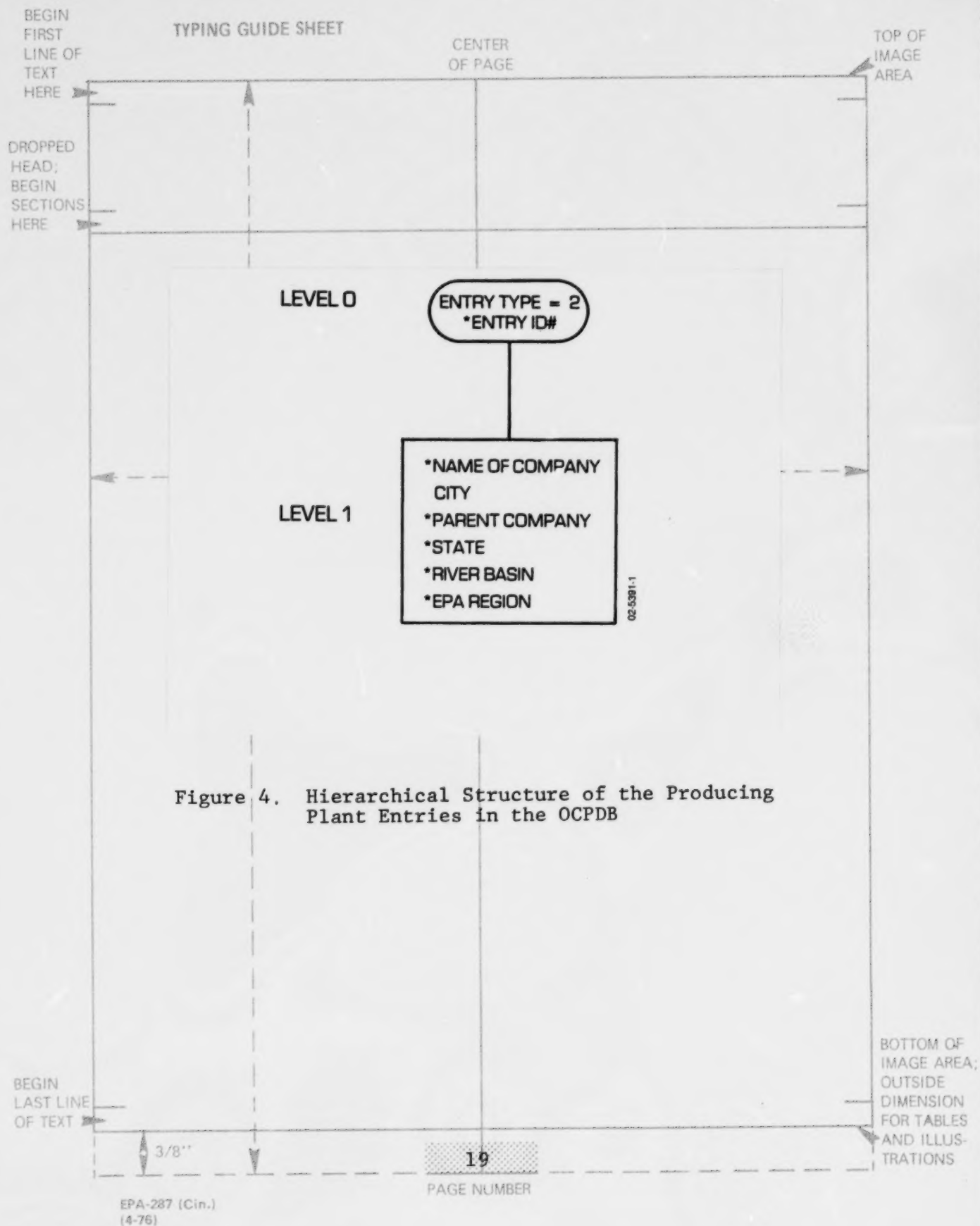
Several repeating groups (groups of data elements which may occur more than once within the same type of entry, usually with different values in the data elements) occur at Level 2. Production process routes are described by a searchable numeric identifier as well as descriptive text. Associated with each process are two lower level (Level 3) repeating groups. The first lists all plants which produce the chemical described using the process described. The other lists IPPEU numbers associated with the described process. The producing plant is identified simply by

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its unique Radian identification number (the OCPDB entry identifier mentioned above). This link between production processes and producers ties together the two types of entries, allowing cross references between producers and products as shown diagrammatically in Figure 5.

The remaining Level 3 repeating groups provide data about U.S. production volume, domestic sales, and unit cost; descriptions of end uses; and synonyms for the primary chemical name used in Level 1. The synonyms can be used to retrieve data about a chemical even if its "primary" or Radian assigned name is not known.

The structure of the logical entries describing producing plants (shown in Figure 4) is much simpler than the chemical entry structure. In addition to the top level, Level 0, there is only one other level; it contains the company name, parent company name, city, state, river basin, and EPA region. All of these data elements are key (searchable) items.

The entire hierarchical structure just described is called the OCPDB definition. Table 5 shows the definition of the data base as it appears to System 2000®. Note the hierarchical numbering system.

ADVANTAGES COMPARED TO LINEAR SYSTEMS

The hierarchical organization of data provided by System 2000 has several advantages over the more traditional "linear" approach to data organization. One advantage is that the problem of variable amounts of data is handled very efficiently. If a data element contains no data, no allocation of physical storage is required. Conversely, there is no limit to the allowable number of occurrences of a data element or repeating group. In conventional, fixed-record-length, sequentially organized file structures, a predetermined amount of storage must be allocated for a set of data elements; if there is no known value for the data, "blank" storage is allocated. If several occurrences of the data are possible, it becomes necessary to allocate space for the maximum possible number of occurrences in every record, thereby tying up needed computer storage.

Moreover, in linear type systems, if a situation arises in which more than the allocated maximum number of occurrences of a data element needs to be stored, there is no simple method for doing so. Once the system is set up for no more than five values of a data element, it is nearly impossible to handle six values, for example.

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Relationships among data elements can be directly and easily translated into a System 2000® data base definition. In the case

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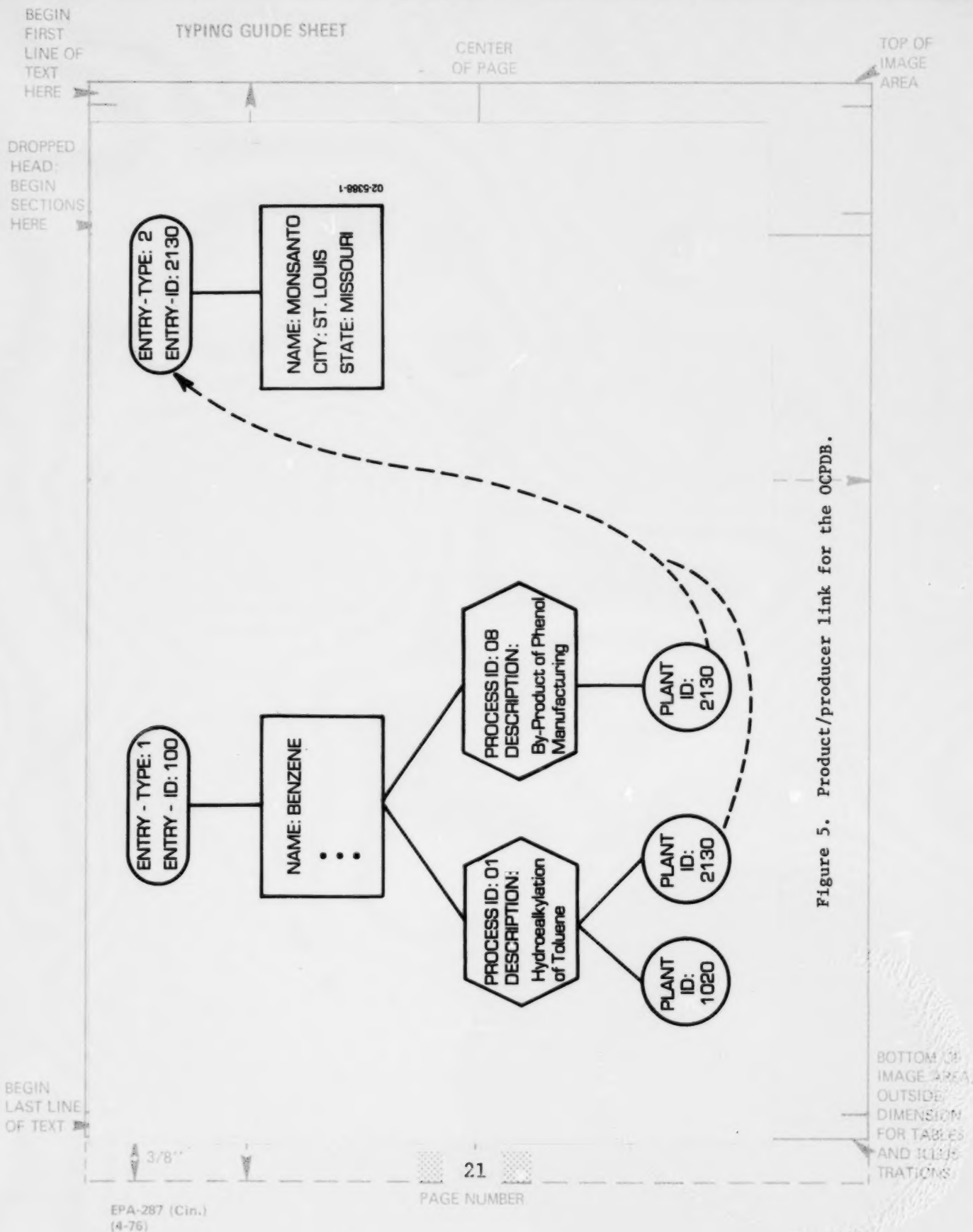


Figure 5. Product/producer link for the OCPDB.

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TABLE 5. OCPDB DEFINITION AS IT APPEARS
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USER,THC;
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DATA BASE NAME IS OCPDB;
-556- ASSIGNED OCPDB 42 1 78/11/13. 08.4
---
DESCRIBE;
SYSTEM RELEASE NUMBER 2.60D
DATA BASE NAME IS OCPDB
DEFINITION NUMBER 42
DATA BASE CYCLE 1
1* ENTRY TYPE (INTEGER NUMBER 9)
2* ENTRY ID (INTEGER NUMBER 9(5))
1000* PRODUCT DESCRIPTION (RG)
1001* PRODUCT (NAME X(25) IN 1000)
1002* CAS NUMBER (INTEGER NUMBER 9(10) IN 1000)
1003* NEW IN DB FLAG (NON-KEY NAME X IN 1000)
1004* CONFIDENTIAL PRODUCT FLAG (NON-KEY NAME X(7) IN 1000)
1006* WISWESSER FORMULA (TEXT X(40) IN 1000)
1007* NIOSH NUMBER (NON-KEY NAME X(8) IN 1000)
1008* LD50 MODE (NON-KEY NAME XXX IN 1000)
1009* LD50 SPECIES (NON-KEY NAME XXX IN 1000)
1010* LD50 AMOUNT (NON-KEY DECIMAL NUMBER 9(5).9999 IN 1000)
1011* LD50 UNITS (NON-KEY NAME X(20) IN 1000)
1012* LCLO MODE (NON-KEY NAME XXX IN 1000)
1013* LCLO SPECIES (NON-KEY NAME XXX IN 1000)
1014* LCLO AMOUNT (NON-KEY DECIMAL NUMBER 9(5).9999 IN 1000)
1015* LCLO UNITS (NON-KEY NAME X(20) IN 1000)
1016* AGTX-TLM96-FROM (NON-KEY INTEGER NUMBER 9(6) IN 1000)
1017* AGTX-TLM96-TO (NON-KEY INTEGER NUMBER 9(6) IN 1000)
1018* THRESHOLD LIMIT VALUE (NON-KEY NAME X(10) IN 1000)
1019* TLV UNITS (TEXT X(10) IN 1000)
1020* LOCAL ACUTE INGESTANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1021* LOCAL ACUTE INGESTANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1022* LOCAL ACUTE IRRITANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1023* LOCAL ACUTE DERMAL RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1024* LOCAL ACUTE ALLERGEN RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1025* LOCAL CHRONIC INGESTANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1026* LOCAL CHRONIC INHALANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1027* LOCAL CHRONIC IRRITANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1028* LOCAL CHRONIC DERMAL RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1029* LOCAL CHRONIC ALLERGEN RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1030* SYSTEMIC ACUTE INGESTANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1031* SYSTEMIC ACUTE INHALANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1032* SYSTEMIC ACUTE IRRITANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1033* SYSTEMIC ACUTE DERMAL RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1034* SYSTEMIC ACUTE ALLERGEN RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1035* SYSTEMIC CHRONIC INGESTANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1036* SYSTEMIC CHRONIC INHALANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1037* SYSTEMIC CHRONIC IRRITANT RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
1038* SYSTEMIC CHRONIC DERMAL RATING (NON-KEY INTEGER NUMBER 9 IN 1000)
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1039* SYSTEMIC CHRONIC ALLERGEN RATING (NON-KEY INTEGER NUMBER 9 IN
1000)
1005* PRIORITY POLLUTANT FLAG (NAME X IN 1000)
1100* ANNUAL PRODUCTION DATA (RG IN 1000)
1101* PRODUCTION YEAR (INTEGER NUMBER 9999 IN 1100)
1102* PRODUCTION VOLUME (NON-KEY DECIMAL NUMBER 9(5).9999 IN 1100
)
1103* UNIT COST (NON-KEY DECIMAL NUMBER 9(5).9999 IN 1100)
1104* SALES (MONEY $9(5).9999 IN 1100)
1200* END USES (RG IN 1000)
1201* END USE DESCRIPTION (NON-KEY NAME X(50) IN 1200)
1202* END USE AMOUNT (NON-KEY DECIMAL NUMBER 9(5).9999 IN 1200)
1203* PERCENT DOMESTIC USE (NON-KEY DECIMAL NUMBER 999.999 IN 120
0)
1204* END USE IPPEU NUMBER (NON-KEY INTEGER NUMBER 999 IN 1200)
1300* SYNONYMS (RG IN 1000)
1301* SYNONYM (NAME X(40) IN 1300)
1400* PROCESS (RG IN 1000)
1401* PROCESS ROUTE ID (INTEGER NUMBER 999 IN 1400)
1402* PROCESS ROUTE (NAME X(25) IN 1400)
1410* PRODUCERS (RG IN 1400)
1411* PLANT ID (INTEGER NUMBER 9(5) IN 1410)
1412* PLANT CAPACITY (NON-KEY DECIMAL NUMBER 9(5).9999 IN 1410)
1420* PRODUCT IPPEU NUMBER (RG IN 1400)
1421* IPPEU NUMBER (INTEGER NUMBER 999 IN 1420)
1430* PROCESS MODULES (RG IN 1400)
1431* MODULE ID (INTEGER NUMBER 9(5) IN 1430)
1432* MODULE DESCRIPTION (NAME X(25) IN 1430)
2000* PRODUCER DESCRIPTION (RG)
2001* COMPANY NAME (NAME X(25) IN 2000)
2003* CITY (NAME X(10) IN 2000)
2004* STATE (NAME X(10) IN 2000)
2005* STATE CODE (NAME XX IN 2000)
2006* EPA REGION (INTEGER NUMBER 99 IN 2000)
2007* RIVER BASIN (NAME X(50) IN 2000)
2008* RIVER BASIN CODE (INTEGER NUMBER 9(8) IN 2000)
2002* PARENT COMPANY (NAME X(25) IN 2000)
---
DESCRIBE STRINGS)
3002* LOAD PLANT (STRING (IT ENTRY*0 EQ 1*2**2000*2001**2**2002*
*3**2003**4**5**2005**6**END*))
3003* DESCRIBE ENTRY (STRING (PRINT/NAME/ENTRY WM ENTRY ID EQ *1*))
3004* PRODUCT SLATE (STRING (LIST C2001,C2002,C2003 WM C2 EQ *1*)LIST
C1001, C1402,OB C1001,C1402 WM C1400 HAS C1411 EQ *1*))
3005* LIST EPA (STRING (LIST C2001,C2002,C2003,OB C2004,C2002,C2001 W
H C2005 EQ*1*))
3001* LIST PLANTS (STRING (LIST/TITLE D(25)PLANT DIRECTORY,F(30)/C200
1,C2002,C2003,C2,OB C2001,C2,C2004,C2002 WM C1 EQ 2))
3000* LIST PRODUCTS (STRING (LIST/REPEAT SUPPRESS,TITLE D(25)PRODUCT
DIRECTORY,F(30),L(25)+PRODUCT,R(8)+ENTRY ID,R(5)PROC.+NO.,L(20)
+PROCESS ROUTE/C1001,C2 C1401,C1402,OB C1001,C1401 WM C1 EQ 1)
))
---
EXIT)
-505- CLOSED OCPDH 42 1 78/11/13. 08.49.37.
78/11/13. 15.10.50. END SYSTEM 2000 VERSION 2.60D
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of the OCPDB, this type of relationship exists between production processes and a chemical product (a chemical may have only one or many different production processes), between IPPEU numbers and production processes, products and producers, and producers and products. Any relationship that can be expressed in a "one parent-to-many children" form can be implemented most efficiently as a System 2000® data base. The old form of the OCPDB did not specifically recognize the structure and relationships of the data stored in it. All information retrieval consisted of sorting the entire data base and selecting records based on rigidly defined, pre-programmed retrieval capabilities. Each selection process involved looking at the whole file of data. In System 2000®, data indexes are maintained which provide direct access to all records and only those records of interest are searched. Any combination of search keys is possible so that "ad hoc" retrievals may be performed easily, quickly, and inexpensively.

INFORMATION RETRIEVAL

Any data element defined in System 2000® as a key element can be used as the basis for retrieving information from the OCPDB. Table 3 lists all key data elements separately for easy reference. 9-1/8"

Three types of direct retrieval are possible with the OCPDB: 1) information about chemical products, 2) information about producers, and 3) relationships between producers and products. Using any of the key data elements for retrieval, any other data value associated with a logical entry can be extracted from the data base.

Retrievals may be specific to a single entry. For example, if the CAS registry number for a compound is known, only information about that compound will be extracted, since this identifier is uniquely defined for each chemical compound. Similarly, if the unique Radian identification number is known for a plant, it can be used to get information about that particular plant only; for example, its location in a river basin.

More general retrievals are also possible by specifying more complex or less specific search criteria. For example, all plants located in a particular EPA region can be retrieved, since the EPA region number is a key element associated with every plant in the data base. Carrying the example further, all DuPont plants located in either California or Ohio could easily be found by using two keys: company name and state. Virtually any number of keys, in any logical combination, may be used for access to information in the OCPDB.

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A basic set of retrieval capabilities has been defined. Examples of some of the retrieval capabilities have been included in Section 5. These retrieval capabilities have been defined and stored as System 2000® "strings," or user-defined commands. A list of "strings" is shown in Table 6. Additional retrieval capabilities can easily be added as they are required.

Not all information retrieval requirements can be satisfied completely with the direct access retrieval facilities of System 2000 described above, however. For extremely complex retrievals or for analytical processing, System 2000® provides a procedure language interface (PLI) for use with high-level programming languages such as FORTRAN or COBOL. The power and flexibility of a high-level programming language is, thus, added to the efficient data management and retrieval functions of System 2000®, as shown diagrammatically in Figure 6.

This arrangement has been used to implement one of the most powerful and useful capabilities of the OCPDB: the "minimum site search."

A "minimum site search" is the process of locating the smallest list of plants (sites) which, taken as a group, produce a specific list of products. It can happen that more than one set of sites will satisfy this criterion, since the same chemicals could be produced at many plants. However, there will be a minimum number of plants in the group producing the specified chemicals. The result of a minimum site search is a list of plants producing the required chemicals. The list that results from the search is, thus, somewhat arbitrary in the sense that several other combinations could have been chosen which would have been equally satisfying.

The procedure used in the OCPDB for locating a minimum site list is very simple, and can be shown to produce the correct result. An iterative process of elimination is used. First, a list of plants is generated which produce all the specified chemicals. A single plant producing most of the chemicals on the search list is then located and added automatically to the final list of plants chosen. (Note that two or more plants could produce the same maximum number of chemicals; in that case the choice of site is arbitrary.) The chemicals which are on both the search list and the product slate of the selected site are now removed from the search list, since they have been located. The process is repeated with the reduced search list. A plant producing the greatest number of the chemicals on this list is selected, and its OCPDB product slate removed from the search list. Ultimately, when the search list is emptied, all of the originally specified chemicals will be covered by a minimal set of sites.

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The search capability has proven useful in planning field work by EPA. By utilizing the minimum site search capability of the OCPDB, an optimum itinerary can be planned, covering all required chemical products at a minimum number of plants.

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TABLE 6. STRINGS CURRENTLY DEFINED FOR THE OCPDB^a

String	Output
*Locate (chemical name or synonym) ^b	OCPDB chemical name, number, and synonyms for specified chemical OCPDB chemical names, number, and synonyms OCPDB chemical name, number, and all chemical-related data for the chemical with specified CAS Registry Number.
*List Synonyms ^{*c}	Toxicity data for the specified chemical
*CAS # (CAS#)	OCPDB producers located in the specified EPA Region: OCPDB name, number, parent company, city, and state
*Toxicity (OCPDB chemical #)	OCPDB producers located in the specified river basin: OCPDB name, number, parent company, city, and state
*List EPA (EPA Region #)	OCPDB producers owned by a particular company: OCPDB name, number, city, and state
*List River Basin (Code #)	OCPDB producers within the specified state: OCPDB name, number, parent company, city, and state
*Subsidiaries (Parent Company Name)	OCPDB chemical name, number, production volume and year, unit cost and year, sales and year
*List State (State Code)	
*Economic data (OCPDB chemical #)	

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TABLE 6 (Continued)

String	Output
List Uses	Uses for the OCPDB chemicals: chemical name, number, description of uses, amount used in a particular way, and percent used in a particular way
List Chemicals	OCPDB chemical names, number, and processes
List IPPEU	IPPEU numbers for OCPDB chemicals: OCPDB chemical names, numbers, processes, and IPPEU numbers
List plants	OCPDB chemical producers: producer name, number, parent company, city, and state
*Product slate (Plant #)	OCPDB chemical names, numbers, and capacities for specified producers

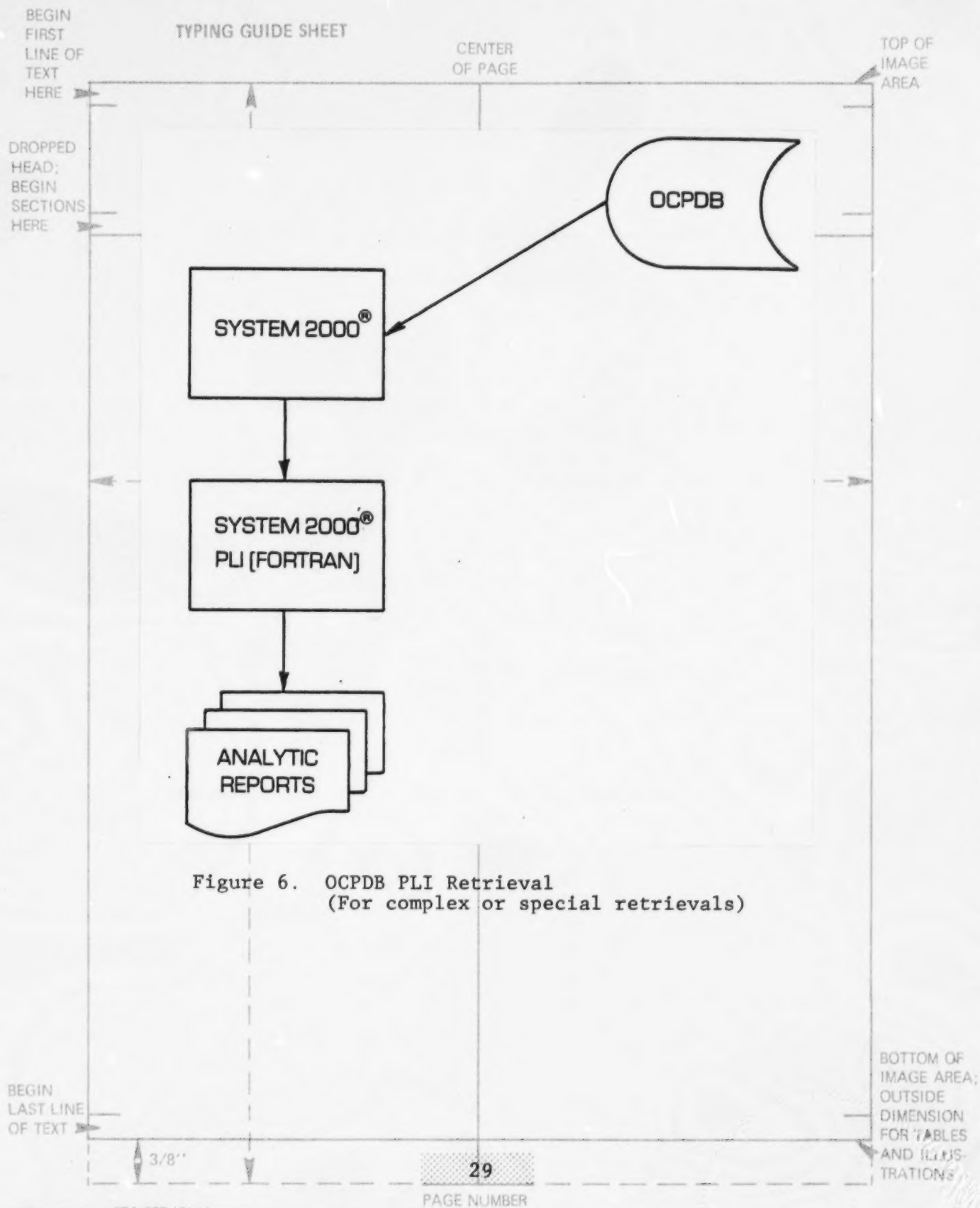
^aAdditional strings may be defined at any time.

^bString without * at end of command operates only on data specified within parentheses.

^cString ending in * operates on entire data base.

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SECTION 5

SAMPLE OCPDB REPORTS

The workings of the system are best understood by examining various sample reports it generates. The OCPDB system has so many capabilities that the types of reports which can be generated are virtually unlimited. This section contains a few representative samples accompanied by brief explanation. Variations on these sample reports are possible, and reporting format can be tailored to the user's specifications. Both interactive and batch modes of access are illustrated. Reports which have stars (*) along the left side of the page resulted from direct retrieval. Others had output formats specified by FORTRAN programming.

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MODES OF ACCESS AND REPORTING CAPABILITIES

The first sample report illustrates the system capabilities for accessing the files by primary OCPDB chemical name or any one of its synonyms. This is followed by reports demonstrating several different modes of access (i.e., CAS registry number and WLN listing). Sample chemical/process and plant directory listings are included as an aid to reading the complete lists found in the Appendix. Another sample shows the important link which matches products with producers. Examples of reports of toxicity information and use information are also shown. Finally, a series of three examples are shown which demonstrate methods for retrieving lists of plant populations in geographical regions: state, EPA region, and river basin.

Primary Name/Synonym

Synonym accessing capabilities facilitate retrieval of information and help the user avoid the traditional problems of chemical nomenclature. Information can be retrieved from the OCPDB by the primary chemical entry name or by one of its synonyms. The first table in this section, Table 7, is an example illustrating the use of the synonym files. When the computer is asked to find a chemical entry or one of its synonyms, it responds by printing the OCPDB chemical entry name and its synonyms. In the first part of Table 7 the chemical is requested by

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TABLE 7. SAMPLE OF OCPDB SYNONYM RETRIEVAL CAPABILITIES

00100	---	LOCATE (BENZALDEHYDE)	SYNONYM
00200	***	ENTRY ID PRODUCT	
00300	***	360 BENZALDEHYDE	ARTIFICIAL ALMOND OIL
00400	*		BENZENE CARBONAL
00500	*		BENZENE CARBOXYALDEHYDE
00600	*		BENZOIC ALDEHYDE
00700	*		PHENYL METHANAL
00800	*		
00900	*		
01000	---	LOCATE (BENZOIC ALDEHYDE)	SYNONYM
01100	***	ENTRY ID PRODUCT	
01200	***	360 BENZALDEHYDE	ARTIFICIAL ALMOND OIL
01300	*		BENZENE CARBONAL
01400	*		BENZENE CARBOXYALDEHYDE
01500	*		BENZOIC ALDEHYDE
01600	*		PHENYL METHANAL
01700	*		
01800	*		
01900	---		

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its OCPDB name: benzaldehyde. The latter part of the table shows the results of requesting the computer to find the same chemical, but using a synonym instead of the OCPDB chemical entry name.

CAS Numbers

There are several ways to access the OCPDB for chemical information. One just discussed was by synonym. Table 8 illustrates another method of access: by CAS registry number. Many data bases, especially archival types, have begun using these numbers for retrieval to eliminate confusion over chemical names. The report shown in Table 8 is the result of a request for all of the information in the OCPDB about the chemical with CAS registry number 95807.

Going through the report item by item, on line 300 the OCPDB number and the OCPDB chemical entry name have been printed. The symbol (#) before the name indicates that it is one of the original OCPDB chemicals. Synonyms of toluene-2,4-diamine are listed beginning on line 500. The Wiswesser line (WLN) formula is printed on line 1100, and the NIOSH registry number appears on line 1300. The toxicity data contained in the OCPDB files for this specific chemical start on line 1500. Economic data, including production volume and unit costs, are included from lines 2000 to 2400. Note that sales data are not available and are, thus, not included. Use data (lines 2600 and 2800) for this specific chemical consist of qualitative descriptions. If quantitative data had been available, percent domestic consumption for each use and amount used domestically would both have been printed here. Process routes for industrial production of toluene-2,4-diamine are defined on lines 3000 and 3100. Producers are listed tabularly from lines 3500 through 4600. The plant ID is the OCPDB plant identifying number. The "unspecified" process route indicates that information specifically relating plants to processes was unavailable. Note that information concerning capacities of the specific plants was also unavailable. The cities and states where the producing companies are located are listed along with the river basin codes which can be used to locate the plant on waterways. In the case of one of the plants, Olin Corporation in Rochester, New York, there is no river basin code. This datum is missing because of the fact that more than one river flows through the area, and the discharge point of the plant was not specified.

Wiswesser Line Notation

Access to the files by WLN formula is illustrated in an example in Table 9. Listed in the table are the OCPDB chemicals containing carboxylic acid groups (represented by QV or VQ in

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TABLE 8. EXAMPLE OF RETRIEVAL OF INFORMATION BY CAS NUMBER

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TABLE 9. EXAMPLE OF ACCESS BY WLN: LISTING OF CHEMICALS
HAVING WLN FORMULA CONTAINING QV OR VQ

00100	#ACETIC ACID	QV1
00200	#ACRYLIC AND ACRYLATE ESTERS	QV10V1V1
00300	#ADIPIC ACID	QV4VQ
00400	#AMINO BENZOIC ACID (M,P)	ZR XVQ
00500	#ANTHRANILIC ACID	ZMDVQ
00600	ASPIRIN	QV ZR DVQK BQV1
00700	#BENZILIC ACID	QXREHVVQ
00800	#BENZOIC ACID	QVR
00900	#P-TERT-BUTYLBENZOIC ACID	QVR XX
01000	#N-BUTYRIC ACID	QV3
01100	#CHLORACETIC ACID	QV16
01200	#CHLOROBENZOIC ACID AND ESTERS	QVR XG
01300	#CROTONIC ACID	QV102 -T
01400	#CYANOACETIC ACID	QV1CM
01500	#DIAMINOBENZOIC ACID	ZR XZ XVQ
01600	#3,5-DINITROBENZOIC ACID	MNR CVQ ENM
01700	ETHYL HEXANOIC ACID	QVY462
01800	#FUMARIC ACID	QV1U1VQ-T
01900	#GLYCINE	QVY22VQ 8-NA-- -DL
02000	#P-HYDROXYBENZOIC ACID	QVR DQ
02100	#ISOBUTYRIC ACID	QVY
02200	#ISOPHTHALIC ACID	QVR CVQ
02300	#MALEIC ACID	QV1U1VQ -C
02400	#METHACRYLIC ACID	QVYU1VQ -L
02500	#NEOPENTANOIC ACID	QVYU1
02600	#NITROBENZOIC ACID (M,O,P)	QVX
02700	#PHENYL ANTHRANILIC ACID	MNR XVQ
02800	#PROPIONIC ACID	QVR BMR
02900	#RESORCYLIC ACID	QV2
03000	#SALICYLIC ACID	DVM XG XG
03100	#SODIUM CHLOROACETATE	QVR BQ
03200	#SORBIC ACID	QV16 8-NA-
03300	#SUCCINIC ACID	QV1U2U2
03400	#TEREPHTHALIC ACID	QV2VQ
03500	---	QVR DVQ
03600	---	

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WLN) in their chemical structures. As previously noted, the symbol (#) before a chemical entry name indicates that the chemical is one of the original OCPDB chemicals. If any of this list had been priority pollutants, a P would have appeared before the "#" symbol.

One specific chemical could also have been requested by asking for its complete WLN formula. For instance, if information for the chemical having a WLN formula of QVX had been requested, files concerning neopentanoic acid would have been retrieved.

Chemical/Process Listing

Table 10 is a partial listing of the OCPDB chemicals and the industrial processes used for their manufacture. (For a complete listing see Appendix A.) The first four digits in the "ID" column identify the chemicals by OCPDB number. The last two digits identify the OCPDB processes. Chemical names are listed in the column titled "CHEMICAL." The original OCPDB chemicals are flagged with a "#" symbol. If any priority pollutants had been included in this sample, they would have been marked with a "P". Short process descriptions of industrial manufacturing processes are included in the column marked "PROCESS". When an industrial process was not identified for the production of a specific chemical, process No. 51 was labelled "UNKNOWN". The numbers in the column labelled "IPPEU NOS" are a cross reference to the process descriptions contained in Chapter 6 of the Industrial Process Profiles for Environmental Use (28).

Producers

One very important use of the OCPDB is matching chemicals with producers. Table 11 illustrates this capability. This particular report resulted from a request for producers of three specified chemicals. The OCPDB chemical numbers and names are printed on lines 400, 1700, and 3200. The company names of producers of each specific chemical and locations are printed below the chemical entries. Capacities and/or river basin codes associated with the production locations can also be printed on a report of this type.

Producers are linked with specific processes for manufacturing a chemical when it was clearly stated in reference sources that they produced that chemical by that process. Otherwise, even if only one commercial route for producing a chemical was found in the references consulted, the process used by that chemical company is reported as unspecified.

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TABLE 10. PARTIAL LISTING OF OCPDB CHEMICALS AND PROCESSES

CHEMICAL PROCESSES 7/8/12/06		IPPEU NOS	
CHEMICAL	PROCESS		
00100			
00200			
00300			
00400			
00500			
00600			
00700			
00800			
00900			
01000			
01100			
01200			
01300			
01400			
01500			
01600			
01700			
01800			
01900			
02000			

1770 0	ETHYLENE		
51			
52			
1780 0	ETHYLENE CARBONATE		
51			
1790 0	ETHYLENE CHLOROHYDRIN		
51			
1800 0	ETHYLENE DIAMINE		
51			
1810 0	ETHYLENE DIISOCYANIDE		
51			
1830 0	ETHYLENE GLYCOL		
51			
51			
53			
	PYROLYSIS OF ETHANE/PROPANE		
	PYROLYSIS OF GAS OIL OR NAPHTHA		
	ETHYLENE OXIDE AND CARBON DIOXIDE		
	ETHYLENE & HYPOCHLOROUS ACID		
	ETHYLENE DICHLORIDE & AMMONIA		
	ADDITION OF BROMINE TO ETHYLENE		
	HYDRATION OF ETHYLENE OXIDE FROM OXIDATION OF ETHYLENE		
	ETHYLENE & ACETIC ACID/ THEN HYDROLYSIS		
	ETHYLENE & HYPOCHLOROUS ACID		
		157	
		136	
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TABLE 11. EXAMPLE OF OCPDB REPORT OF PRODUCERS
FOR SPECIFIC CHEMICALS

PRODUCERS		
1661 ETHANOLAMINES	00100	MI
	00200	TX
	00300	TX
	00400	TX
	00500	KY
	00600	TX
	00700	TX
	00800	TX
	00900	TX
	01000	TX
1670 ETHYL ACETATE	01100	TX
	01200	TX
	01300	TX
	01400	TX
	01500	TX
	01600	TX
	01700	TX
	01800	TX
	01900	TX
	02000	TX
1680 ETHYL ACETOACETATE	02100	TX
	02200	TX
	02300	TX
	02400	TX
	02500	TX
	02600	TX
	02700	TX
	02800	TX
	02900	TX
	03000	TX
1690 ETHYL ACETOACETATE	03100	TX
	03200	TX
	03300	TX
	03400	TX
1700 ETHYL ACETOACETATE	03500	TX
	03600	TX
	03700	TX
	03800	TX

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Table 12 is a sample of retrieval of toxicity data from the data base. The request made was to report the toxicity information for the chemical with the OCPDB number 1030. On line 500 the product name (cresylic acid) is recorded; the toxicity data follows. The NIOSH number given on line 700 is provided for referencing the NIOSH Directory (11). LD₅₀ for rats, aquatic toxicity, and threshold limit values are listed on lines 800 through 1500. The information on lines 1600 through 2700 is taken from Sax (29).

Toxicity files may be accessed by any of the chemical identifiers: name, synonym, WLN, CAS registry number, or OCPDB number.

Uses

One of the new files in the revised data base is the chemical use file. Table 13 illustrates the current method of reporting this data. Use data for chemicals can be requested by any of the chemical access modes (OCPDB number, chemical name, synonym, WLN, CAS registry number).

The OCPDB chemical number is printed in the "ID" column in Table 13, the chemical name in the column labelled "CHEMICAL". In the "DESCRIPTION" column, the actual uses of the chemical are described. If data quantitating the uses are available in the OCPDB files, they are printed in the last two columns. The "AMOUNT" column lists the amount used in the U.S. per year in millions of pounds. The "PERCENT DOMESTIC" column presents the percentage of U.S. consumption that is used in a particular way. For instance, referring to the entry for acrylic resins, 196 million pounds per year are used in cast sheet manufacture. This amount represents 27 percent of the U.S. consumption of acrylic resins.

Work is currently underway to make the use files searchable by particular uses. This addition would allow for closer scrutiny of a chemical as it moves from raw materials through downstream uses.

Plant Listing

Table 14 contains a partial plant listing of OCPDB producers; a complete plant listing is included in Appendix B. Only producers of OCPDB chemicals are included in the data base files.

The numbers in the column titled "PLANT ID" are the OCPDB identifying numbers assigned to production locations. The producing company's name is listed under "COMPANY". If the produc-

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TABLE 12. EXAMPLE OF A TOXICITY REPORT
FOR A SPECIFIED CHEMICAL

00100	---
00200	*LIST TOXICITY (1030)
00300	---
00400	***
00500	* PRODUCT* CRESYLIC ACID
00600	---
00700	* NIOSH NUMBER* A096000
00800	* LD50 MODE* ORL
00900	* LD50 SPECIES* RAT
01000	* LD50 AMOUNT* 0.1454
01100	* LD50 UNITS* MG/KG
01200	* ASTX-TLM96-FROM* 10
01300	* ASTX-TLM96-TU* 1
01400	* THRESHOLD LIMIT VALUE* 5(SKIN)
01500	* TLV UNITS* PPM
01600	* LOCAL ACUTE INGESTANT RATING* 2
01700	* LOCAL ACUTE INHALANT RATING* 2
01800	* LOCAL ACUTE IRRITANT RATING* 2
01900	* LOCAL ACUTE ALLERGEN RATING* 2
02000	* LOCAL CHRONIC INGESTANT RATING* 2
02100	* LOCAL CHRONIC INHALANT RATING* 2
02200	* LOCAL CHRONIC DERMAL RATING* 2
02300	* SYSTEMIC ACUTE IRRITANT RATING* 2
02400	* SYSTEMIC ACUTE ALLERGEN RATING* 2
02500	* SYSTEMIC CHRONIC INGESTANT RATING* 2
02600	* SYSTEMIC CHRONIC INHALANT RATING* 2
02700	* SYSTEMIC CHRONIC DERMAL RATING* 2
02800	---

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TABLE 13. EXAMPLE OF LISTING OF CHEMICAL USES

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TABLE 14. PARTIAL OCPDB PLANT LISTING

PLANT DIRECTORY 78/12/09				STATE
PLANT ID	COMPANY	PARENT	CITY	
00100	***			PA
00200			PHILADELPHIA	PA
00300			MILWAUKEE	WI
00400			LA PORTE	IN
00500	280 ALCO STANDARD CORP., INC.		MONCURE	NC
00600	290 ALDRICH CHEM. CO., INC.	CHEMETRON CORP.	WEST CONSHOHOCKEN	PA
00700	295 ALLEGANY LUDLUM INDUST., INC.		ELSEBUND	CA
00800	300 ALLIED CHEMICAL CORP.			
00900	310 ALLIED CHEMICAL CORP.	NYPEL, INC.		
01000	320 ALLIED CHEMICAL CORP.			
01100				
01200				
01300				
01400	660 AMERICAN CYANAMID		PAINESVILLE	OH
01500	670 AMERICAN CYANAMID	I H C FIBERS CO.	WILLOW ISLAND	WV
01600			BATON ROUGE	LA
01700	675 AMERICAN HOECHST CORP.			

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ing company is a subsidiary of another company, the parent company name is listed under "PARENT". The location of the producing company is specified by city and state.

Plant Listing by EPA Region

Populations of OCPDB producers can be requested by EPA Region Number as illustrated in Table 15. Listed in the table are all of the OCPDB producers in EPA Region 6 (Texas and Louisiana). The information is reported in the same format as the complete plant listing. OCPDB plant identifiers are included in the column labelled "PLANT ID". Producing company names and parent company names are listed in the next two columns. Production locations are identified by city and state.

Plant Listing by River Basin

A new feature of the revised OCPDB is the ability to list the OCPDB producers by river basin location. Table 16 shows a report generated in an interactive mode in which the computer was queried for the OCPDB producers located in the river basin having the code number 05020003. The computer responded with the name of the river basin (line 500) and a listing of the plants located there (lines 800 and 900). The computer was then asked for product slates of the plants located in the Upper Monongahela River Basin. Note that the Symbol (#) before the chemical name indicates that the chemical is one of the original OCPDB chemicals. A complete listing of the river basins in which OCPDB producers are located is included in Appendix C.

Listing by States

Lists of OCPDB producers located within specified states may be retrieved. This capability is illustrated in Table 17 which contains a listing of the OCPDB producers located in the state of Kentucky.

The numbers listed in the column titled, "PLANT ID" are OCPDB producer identifiers. The producing company names are listed in the column labelled "COMPANY". If the producer is a subsidiary of another company, the owner is listed in the column labelled "PARENT COMPANY". The producing company location is identified by city and state in the last two columns.

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TABLE 15. LISTING OF OCPDB CHEMICAL PRODUCERS IN EPA REGION 6

PLANT ID	COMPANY	PARENT COMPANY	CITY	STATE
00200	*** LIST EPA(e)			
00300	00300		ABBEVILLE	LA
00400	00400		HOUSTON	TX
00500	00500		LA PORTE	TX
00600	00600		BATON ROUGE	LA
00700	00700		GEISMAR	LA
00800	00800		ORANGE	TX
00900	00900	ALLEGHENY LUDLUM INDUST., INC.	NEW ORLEANS	LA
01000	01000		BATON ROUGE	LA
01100	01100		BEAUMONT	TX
01200	01200		BIG SPRING	TX
01300	01300		GROVES	TX
01400	01400		PURT ARTHUR	TX
01500	01500		CHANNELVIEW	TX
01600	01600		HOUSTON	TX
01700	01700		PURT ARTHUR	TX
01800	01800		HOUSTON	TX
01900	01900		LA PORTE	TX
02000	02000		HOUSTON	TX
02100	02100	ATLANTIC RICHFIELD CO.	GEISMAR	LA
02200	02200	ATLANTIC RICHFIELD CO.	PORT NECHES	TX
02300	02300	ATLANTIC RICHFIELD CO.	DEEN PARK	TX
02400	02400		BAY CITY	TX
02500	02500		BISHOP	TX
02600	02600		CLEAR LAKE	TX
02700	02700		PAMPA	TX
02800	02800		LAKE CHARLES	LA
02900	02900		JUNALOSUNVILLE	LA
03000	03000		HOUSTON	TX
03100	03100		FURT MOUTH	TX
03200	03200		BAYTOWN	TX
03300	03300		HOUSTON	TX
03400	03400	CHARTER CO., THE	ST. GABRIEL	LA
03500	03500	CHARTER CO., THE	LAKE CHARLES	LA
03600	03600		CORPUS CHRISTI	TX
03700	03700		FURT MOUTH	TX
03800	03800		WESTLAKE	TX
03900	03900		HOUSTON	TX
04000	04000		BATON ROUGE	LA
04100	04100		CARVILLE	LA
04200	04200		DALLAS	TX
04300	04300		CROWLEY	TX
04400	04400		HOUSTON	TX
04500	04500		PASADENA	TX
04600	04600		BUGALUSA	LA
04700	04700		WESTHEG	LA
04800	04800		BAYPORT	TX
04900	04900		QUESSA	TX
05000	05000		PASADENA	TX
05100	05100			
05200	05200			
05300	05300			
05400	05400			
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05600	DE SOTO, INC.	3120	GARLAND	TX
05700	DENKA CHEM. CORP.	3135	HOUSTON	TX
05800	DIAMOND SHAMROCK CORP.	3260	DEER PARK	TX
05900	DIXIE CHEMICAL CO.	3290	BAYPORT	TX
06000	DOW BADISCHE CO.	3330	FREEDPORT	TX
06100	DOW CHEMICAL U.S.A.	3370	PLAQUEMINE	LA
06200	DOW CHEMICAL U.S.A.	3400	FREEDPORT	TX
06300	DOW CHEMICAL U.S.A.	3410	OYSTER CREEK	TX
06400	CARPENTER CHEM. CO.	3500	BAYPORT	TX
06500	EASTMAN CHEM. PRODUCTS INC.	3550	LUNSVIEW	TX
06600	E.I. DU PONT DE NEMOURS & CO., INC.	3590	LAPLACE	LA
06700	E.I. DU PONT DE NEMOURS & CO., INC.	3600	BEAUMONT	TX
06800	E.I. DU PONT DE NEMOURS & CO., INC.	3700	CORPUS CHRISTI	TX
06900	E.I. DU PONT DE NEMOURS & CO., INC.	3710	LA PORTE	TX
07000	E.I. DU PONT DE NEMOURS & CO., INC.	3720	ORANGE	TX
07100	E.I. DU PONT DE NEMOURS & CO., INC.	3730	VICTORIA	TX
07200	EL PASO PRODUCTS CO.	3990	ODESSA	TX
07300	NIPAK, INC.	4110	KERENS	TX
07400	E.R. CARPENTER CO., INC.	4115	TEMPLE	TX
07500	ESMARK, INC.	4130	BEAUMONT	TX
07600	ETHYL CORP.	4160	BATON ROUGE	LA
07700	ETHYL CORP.	4180	PASADENA	TX
07800	EXXON CORP.	4190	BATON ROUGE	LA
07900	EXXON CORP.	4220	BAYTOWN	TX
08000	FERRO CORP.	4300	BATON ROUGE	LA
08100	FIRESTONE TIRE & RUBBER CO., THE	4370	ORANGE	TX
08200	FMC CORP.	4480	BAYPORT	TX
08300	GEORGIA-PACIFIC CORP.	4620	PLAQUEMINE	LA
08400	GEORGIA-PACIFIC CORP.	4900	LUFKIN	TX
08500	GETTY OIL CO.	4950	MINNFIELD	TX
08600	GOOD PASTURE INC.	5000	DIMMITT	TX
08700	GOODYEAR TIRE & RUBBER CO., THE	5010	BAYPOURT	TX
08800	GOODYEAR TIRE & RUBBER CO., THE	5020	BEAUMONT	TX
08900	GOODYEAR TIRE & RUBBER CO., THE	5040	PLAQUEMINE	LA
09000	GULF COAST OLEFINS CO.	5173	TAFT	LA
09100	GULF OIL CORP.	5175	ST. JAMES	LA
09200	GULF OIL CORP.	5200	ALEXANDRIA	LA
09300	GULF OIL CORP.	5230	ORANGE	TX
09400	GULF OIL CORP.	5250	ALLIANCE	LA
09500	GULF OIL CORP.	5290	CEDAR BAYOU	TX
09600	GULF OIL CORP.	5300	PURITANTHUR	TX
09700	HELMERICH AND PAYNE, INC.	5450	BAYTOWN	TX
09800	MERCOFINA	5480	PLAQUEMINE	LA
09900	MERCOFINA	5485	BIG SPRINGS	TX
10000	MERCOFINA	5495	PORT ARTHUR	TX
10100	MERCULES INC.	5520	BATON ROUGE	LA
10200	MERCULES INC.	5530	LAKE CHARLES	LA
10300	MERCULES INC.	5550	BAYPORT	TX
10400	INDEPENDENT REFINING CORP.	5860	WINNIE	TX
10500	INC. CHEM. GROUP, INC.	6020	STERLINGTON	LA
10600	JEFFERSON CHEM. CO., INC.	6110	CUNROE	TX
10700	JEFFERSON CHEM. CO., INC.	6120	PURITANTHUR	TX
10800	JEFFERSON CHEM. CO., INC.	6130	NECHES	TX
10900	JONES-BLAIR CO.	6200	AUSTIN	TX
			DALLAS	TX

E.R. CARPENTER CO., INC.
EASTMAN KODAK CO.

EL PASO NATURAL GAS CO.
ENSERCH CORP.

INTERNATIONAL MINERALS & CHEM.
TEXACO INC.
TEXACO INC.
TEXACO INC.

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11000	6550	LONZA INC.	KERR-MCGEE CORP.	CURPUS CHRISTI	TX
11100	6550	LONZA INC.		BAYPORT	TX
11200	6570	LUBRIZOL CORP., THE		DEER PARK	TX
11300	6600	MARATHON OIL CO.		TEXAS CITY	TX
11400	6730	MELAMINE CHEMS., INC.		DONALDSONVILLE	LA
11500	6750	MERICHEM CO.		HOUSTON	TX
11600	6860	MOBAY CHEMICAL CORP.		BAYTOWN	TX
11700	6870	MOBAY CHEMICAL CORP.		DALLAS	TX
11800	6960	MOBIL CORP.		BEAUMONT	TX
11900	6970	MOBIL CORP.		BEAUMONT	TX
12000	7100	MONSANTO CO.		LULING	LA
12100	7200	MONSANTO CO.		CHOCOLATE BAYOU	TX
12200	7210	MONSANTO CO.		TEXAS CITY	TX
12300	7290	NALCO CHEMICAL CO.		FREEMONT	TX
12400	7300	NALCO CHEMICAL CO.		SUGARLAND	TX
12500	7340	NATIONAL CASSEIN CO.		TYLER	TX
12600	7360	NATIONAL DISTILLERS AND CHEMICAL CORP.		DEER PARK	TX
12700	7390	NATIONAL PETRO CHEMS. CORP.		LA PORTE	TX
12800	7400	NATIONAL STARCH AND CHEM. CORP.		LONG MOTT	TX
12900	7480	NECHES BUTANE PRODUCTS CO.		PURT NECHES	TX
13000	7635	LONE STAR STEEL CO.		DAINGERFIELD	TX
13100	7660	VELSICOL CHEM. CORP.		BEAUMONT	TX
13200	7670	LONE STAR STEEL CO.		LONE STAR	TX
13300	7760	HOOKER CHEMS. AND PLASTICS CORP.		TAFT	LA
13400	7880	OLIN CORP.		LAKE CHARLES	LA
13500	7995	OXIRANE CORP.		CHANNELVIEW	LA
13600	8000	OXIRANE CORP.		BAYPORT	TX
13700	8130	PENNKALT CORP.		BEAUMONT	TX
13800	8140	PENNKALT CORP.		GREENS BAYOU	TX
13900	8150	PENNZOIL CO.		SHREVEPORT	LA
14000	8240	PHILLIPS PETROLEUM CO.		BURGER	TX
14100	8250	PHILLIPS PETROLEUM CO.		PASADENA	TX
14200	8260	PHILLIPS PETROLEUM CO.		PHILLIPS	TX
14300	8270	PHILLIPS PETROLEUM CO.		SWEENEY	TX
14400	8340	PLASTICS MFG. CO.		DALLAS	TX
14500	8410	PPG INDUSTRIES INC.		LAKE CHARLES	TX
14600	8440	PPG INDUSTRIES INC.		BEAUMONT	TX
14700	8490	PPG INDUSTRIES INC.		HOUSTON	TX
14800	8610	PROCTER & GAMBLE CO., THE		DALLAS	TX
14900	8630	PUBLICKER INDUSTRIES INC.		GREINA	LA
15000	8750	QUAKER OATS CO., THE		PASADENA	TX
15100	8760	QUINTANA-HOWELL		CURPUS CHRISTI	TX
15200	9010	REICHOLD CHEMS., INC.		AUSTIN	TX
15300	9020	REICHOLD CHEMS., INC.		HOUSTON	TX
15400	9135	RHODIA INC.		FREEPORT	TX
15500	9240	RIVERSIDE CHEM CO.		PURT NECHES	TX
15600	9360	RUHM AND MAAS TEXAS INC.		DEER PARK	TX
15700	9370	RUBICON CHEMICALS INC.		GEISMAR	LA
15800	9440	SCHENECTADY CHEMICALS, INC.		OYSTER CREEK	TX
15900	9650	SHELL CHEM. CO.		NORCO	LA
16000	9660	SHELL CHEM. CO.		DEER PARK	TX
16100	9670	SHELL CHEM. CO.		ODESSA	TX
16200	9680	SHELL CHEM. CO.		GARLAND	TX
16300	9735	SHERWIN-WILLIAMS CO., THE		FREEPORT	TX
16400	9750	SWINTECH INC.		DEER PARK	TX
16500	9830	SOLTECH POLYMER COMP.		SILSREE	TX
16600	9880	SOUTH HAMPTON CO.			TX

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16700	* 9980	AMOCO CHEMS. CO.	CHOCOLATE BAYOU	TX
16800	* 10010	AMOCO OIL CO.	TEXAS CITY	TX
16900	* 10120	STAUFFER CHEMICAL CO.	ST. GABRIEL	LA
17000	* 10370	SUN PETROLEUM PRODUCTS CO.	CORPUS CHRISTI	TX
17100	* 10610	TENNECO INC.	CHALMETTE	LA
17200	* 10660	PETRO-TEX CHEMICAL CORP.	HOUSTON	TX
17300	* 10670	TENNECO INC.	PASADENA	TX
17400	* 10830	TRIAD CHEMICAL	DONALDSONVILLE	LA
17500	* 10950	UNION CARBIDE CORP.	TAFT	LA
17600	* 11010	UNION CARBIDE CORP.	BROWNSVILLE	TX
17700	* 11020	UNION CARBIDE CORP.	SEADRIFT	TX
17800	* 11030	UNION CARBIDE CORP.	TEXAS CITY	TX
17900	* 11090	CHAMPLIN PETROLEUM CO.	BEAUMONT	TX
18000	* 11100	UNION PACIFIC CORP.	CORPUS CHRISTI	TX
18100	* 11150	UNIROYAL, INC.	GEISMAR	LA
18200	* 11370	UOP INC.	SHREVEPORT	LA
18300	* 11390	UPJOHN CO., THE	LA PORTE	TX
18400	* 11400	VALENTINE SUGARS, INC.	LOCKPORT	LA
18500	* 11500	VULCAN MATERIALS CO.	GEISMAR	LA
18600	* 11650	AGRICO CHEM. CO.	DONALDSONVILLE	LA
18700	* 11860	UNITED FOAM CORP.	DALLAS	TX
18800	---			
		STANDARD OIL CO. (INDIANA)		
		STANDARD OIL CO. (INDIANA)		
		SUN CO., INC.		
		TENNECO INC.		
		UNION OIL CO. OF CALIFORNIA		
		WILLIAMS COMPANIES, THE		

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TABLE 16. EXAMPLE OF RETRIEVAL OF OCPDB PRODUCERS BY
RIVER BASIN LOCATION

00100	---			
00200	*LIST RIVER BASIN(05020003)			
00300	---			
00400	---			
00500	* UPPER MONONGAHELA			
00600	---			
00700	---			
00800	* 1720 BORG-WARNER CORP.			
00900	* 3590 SHARON STEEL CORPORATION			
01000	---			
01100	*PRODUCT SLATE(1720)			
01200	---			
01300	---			
01400	---			
01500	* 1680 #DODECYLPHENOL			
01600	* 2620 #NONYLPHENOL			
01700	---			
01800	---			
01900	*PRODUCT SLATE(9590)			
02000	---			
02100	---			
02200	* 1210 #SODIUM PHENOLATE			
02300	* 997 COAL TAR			
02400	---			

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TABLE 17. LISTING OF OCPDB PRODUCERS IN THE STATE OF KENTUCKY

*LIST STATE(KY)	PLANT	COMPANY	PARENT COMPANY	CITY	STATE
00100	00200	00300	00400	00500	00600
00700	00800	00900	01000	01100	01200
01300	01400	01500	01600	01700	01800
01900	02000	02100	02200	02300	02400
02500	02600	02700	02800	02900	03000
03100	03200	---			
00401	00501	00601	00701	00801	00901
01001	01101	01201	01301	01401	01501
01601	01701	01801	01901	02001	02101
02201	02301	02401	02501	02601	02701
02801	02901	03001	03101	03201	---
00301	00401	00501	00601	00701	00801
00901	01001	01101	01201	01301	01401
01501	01601	01701	01801	01901	02001
02101	02201	02301	02401	02501	02601
02701	02801	02901	03001	03101	03201

00302	00402	00502	00602	00702	00802
00902	01002	01102	01202	01302	01402
01502	01602	01702	01802	01902	02002
02102	02202	02302	02402	02502	02602
02702	02802	02902	03002	03102	03202

00303	00403	00503	00603	00703	00803
00903	01003	01103	01203	01303	01403
01503	01603	01703	01803	01903	02003
02103	02203	02303	02403	02503	02603
02703	02803	02903	03003	03103	03203

00304	00404	00504	00604	00704	00804
00904	01004	01104	01204	01304	01404
01504	01604	01704	01804	01904	02004
02104	02204	02304	02404	02504	02604
02704	02804	02904	03004	03104	03204

00305	00405	00505	00605	00705	00805
00905	01005	01105	01205	01305	01405
01505	01605	01705	01805	01905	02005
02105	02205	02305	02405	02505	02605
02705	02805	02905	03005	03105	03205

00306	00406	00506	00606	00706	00806
00906	01006	01106	01206	01306	01406
01506	01606	01706	01806	01906	02006
02106	02206	02306	02406	02506	02606
02706	02806	02906	03006	03106	03206

00307	00407	00507	00607	00707	00807
00907	01007	01107	01207	01307	01407
01507	01607	01707	01807	01907	02007
02107	02207	02307	02407	02507	02607
02707	02807	02907	03007	03107	03207

00308	00408	00508	00608	00708	00808
00908	01008	01108	01208	01308	01408
01508	01608	01708	01808	01908	02008
02108	02208	02308	02408	02508	02608
02708	02808	02908	03008	03108	03208

00309	00409	00509	00609	00709	00809
00909	01009	01109	01209	01309	01409
01509	01609	01709	01809	01909	02009
02109	02209	02309	02409	02509	02609
02709	02809	02909	03009	03109	03209

00310	00410	00510	00610	00710	00810
00910	01010	01110	01210	01310	01410
01510	01610	01710	01810	01910	02010
02110	02210	02310	02410	02510	02610
02710	02810	02910	03010	03110	03210

00311	00411	00511	00611	00711	00811
00911	01011	01111	01211	01311	01411
01511	01611	01711	01811	01911	02011
02111	02211	02311	02411	02511	02611
02711	02811	02911	03011	03111	03211

00312	00412	00512	00612	00712	00812
00912	01012	01112	01212	01312	01412
01512	01612	01712	01812	01912	02012
02112	02212	02312	02412	02512	02612
02712	02812	02912	03012	03112	03212

00313	00413	00513	00613	00713	00813
00913	01013	01113	01213	01313	01413
01513	01613	01713	01813	01913	02013
02113	02213	02313	02413	02513	02613
02713	02813	02913	03013	03113	03213

00314	00414	00514	00614	00714	00814
00914	01014	01114	01214	01314	01414
01514	01614	01714	01814	01914	02014
02114	02214	02314	02414	02514	02614
02714	02814	02914	03014	03114	03214

00315	00415	00515	00615	00715	00815
00915	01015	01115	01215	01315	01415
01515	01615	01715	01815	01915	02015
02115	02215	02315	02415	02515	02615
02715	02815	02915	03015	03115	03215

00316	00416	00516	00616	00716	00816
00916	01016	01116	01216	01316	01416
01516	01616	01716	01816	01916	02016
02116	02216	02316	02416	02516	02616
02716	02816	02916	03016	03116	03216

00317	00417	00517	00617	00717	00817
00917	01017	01117	01217	01317	01417
01517	01617	01717	01817	01917	02017
02117	02217	02317	02417	02517	02617
02717	02817	02917	03017	03117	03217

00318	00418	00518	00618	00718	00818
00918	01018	01118	01218	01318	01418
01518	01618	01718	01818	01918	02018
02118	02218	02318	02418	02518	02618
02718	02818	02918	03018	03118	03218

00319	00419	00519	00619	00719	00819
00919	01019	01119	01219	01319	01419
01519	01619	01719	01819	01919	02019
02119	02219	02319	02419	02519	02619
02719	02819	02919	03019	03119	03219

00320	00420	00520	00620	00720	00820
00920	01020	01120	01220	01320	01420
01520	01620	01720	01820	01920	02020
02120	02220	02320	02420	02520	02620
02720	02820	02920	03020	03120	03220

00321	00421	00521	00621	00721	00821
00921	01021	01121	01221	01321	01421
01521	01621	01721	01821	01921	02021
02121	02221	02321	02421	02521	02621
02721	02821	02921	03021	03121	03221

00322	00422	00522	00622	00722	00822
00922	01022	01122	01222	01322	01422
01522	01622	01722	01822	01922	02022
02122	02222	02322	02422	02522	02622
02722	02822	02922	03022	03122	03222

00323	00423	00523	00623	00723	00823
00923	01023	01123	01223	01323	01423
01523	01623	01723	01823	01923	02023
02123	02223	02323	02423	02523	02623
02723	02823	02923	03023	03123	03223

00324	00424	00524	00624	00724	00824
00924	01024	01124	01224	01324	01424
01524	01624	01724	01824	01924	02024
02124	02224	02324	02424	02524	02624
02724	02824	02924	03024	03124	03224

00325	00425	00525	00625	00725	00825
00925	01025	01125	01225	01325	01425
01525	01625	01725	01825	01925	02025
02125	02225	02325	02425	02525	02625
02725	02825	02925	03025	03125	03225

00326	00426	00526	00626	00726	00826
00926	01026	01126	01226	01326	01426
01526	01626	01726	01826	01926	02026
02126	02226	02326	02426	02526	02626
02726	02826	02926	03026	03126	03226

00327	00427	00527	00627	00727	00827
00927	01027	01127	01227	01327	01427
01527	01627	01727	01827	01927	02027
02127	02227	02327	02427	02527	02627
02727	02827	02927	03027	03127	03227

00328	00428	00528	00628	00728	00828
00928	01028	01128	01228	01328	01428
01528	01628	01728	01828	01928	02028
02128	02228	02328	02428	02528	02628
02728	02828	02928	03028	03128	03228

00329	00429	00529	00629	00729	00829
00929	01029	01129	01229	01329	01429
01529	01629	01729	01829	01929	02029
02129	02229	02329	02429	02529	02629
02729	02829	02929	03029	03129	03229

00330	00430	00530	00630	00730	00830
00930	01030	01130	01230	01330	01430
01530	01630	01730	01830	01930	02030
02130	02230	02330	02430	02530	02630
02730	02830	02930	03030	03130	03230

00331	00431	00531	00631	00731	00831
00931	01031	01131	01231	01331	01431
01531	01631	01731	01831	01931	02031
02131	02231	02331	02431	02531	02631
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2. Archer, S.R., T.R. Blackwood, and N.P. Meserole, Status Assessment of Toxic Chemicals: Benzidine, Preliminary Draft, Cincinnati, Ohio, U.S. Environmental Protection Agency, November 1977.
3. Archer, S.R., T.R. Blackwood, and P.J. Murin, Status Assessment of Toxic Chemicals: Tris (2,3-Dibromyl) Phosphate, Preliminary Draft, Cincinnati, Ohio, U.S. Environmental Protection Agency, November 1977.
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6. Bellamy, R.G., and W.A. Schwartz, Engineering and Cost Study of Air Pollution Control for the Petrochemical Industry Volume 9: Polyvinyl Chloride Manufacture, EPA-450/3-73-006-i, Houdry Division Air Products and Chemicals, Inc., Marcus Hook, PA., July 1975.
7. Blackwood, T.R. and T.G. Sipes, Status Assessment of Toxic Chemicals: Hexachlorobenzene, Preliminary Draft, Cincinnati, Ohio, U.S. Environmental Protection Agency, November 1977.

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8. CAS, CHEMNAME, Synonym Search for New Chemicals in OCPDB, Palo Alto, California, Lockheed Retrieval Service, DIALOG, Performed July 1978.
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APPENDIX A

ORGANIC CHEMICAL PRODUCERS DATA BASE CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
10	5003569	* ABS/SAN 0 UNSPECIFIED PROCESS 51 EMULSION POLYMERIZATION 52 MASS POLYMERIZATION 53 SOLUTION POLYMERIZATION
12	83329	P* ACENAPHTHENE 51 FROM COAL TAR
15	208968	P* ACENAPHTHYLENE 51 UNKNOWN
20	105577	ACETAL 0 UNSPECIFIED PROCESS 51 CONDENSATION OF ACETALDEHYDE AND ETHANOL
30	75070	ACETALDEHYDE 51 OXIDATION OF ETHYLENE (WACKER) 52 OXIDATION OF ETHANOL 53 BY-PRODUCT OF ACROLEIN
40	107891	ACETALDOL 0 UNSPECIFIED PROCESS 51 CONDENSATION OF ACETALDEHYDE
50	60355	ACETAMIDE 0 UNSPECIFIED PROCESS 51 AMMONOLYSIS OF ETHYL ACETATE
65	103844	ACETANILIDE 0 UNSPECIFIED PROCESS 51 ANILINE, ACETIC ACID, ACETYL CHLORIDE 52 ANILINE + ACETIC ACID
70	64197	ACETIC ACID 51 N-BUTANE LIQUID PHASE OXIDATION 52 OXIDATION OF ACETALDEHYDE (WACKER)

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
75	0	* ACETIC ACID SALTS
		0 UNSPECIFIED PROCESS
		51 NEUTRALIZATION
80	100247	ACETIC ANHYDRIDE
		0 UNSPECIFIED PROCESS
		51 OXIDATION OF ACETALDEHYDE (WACKER)
		52 KEYENE AND ACETIC ACID
90	67641	ACETONE
		51 OXIDATION OF CUMENE
		52 DEHYDROGENATION OF ISOPROPANOL
		53 PROPYLENE OXIDE BY-PRODUCT, CRUDE
		54 2-NAPHTHOL BY-PRODUCT
		55 HYDROQUINONE BY-PRODUCT
		56 OXIDATION OF ISOPROPANOL
		57 BY-PRODUCT OF BUTENE DEHYDROGENATION
100	75865	ACETONE CYANOHYDRIN
		0 UNSPECIFIED PROCESS
		51 CONDENSATION OF ACETONE AND HYDROGEN CYANIDE
110	75058	ACETONITRILE
		51 BY-PRODUCT OF ACRYLONITRILE
120	98862	ACETOPHENONE
		0 UNSPECIFIED PROCESS
		51 OXIDATION OF ETHYLBENZENE
		52 BY-PRODUCT OF PHENOL/ACETONE FROM CUMENE
125	75365	ACETYL CHLORIDE
		0 UNSPECIFIED PROCESS
		51 GLACIAL ACETIC ACID + PHOSPHOROUS TRICHLORIDE

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCFOR NUMBER	CAS NUMBER	CHEMICAL/PROCESS
110	79862	ACETYLENE 51 BASF-PARTIAL OXIDATION OF METHANE 52 FROM CALCIUM CARBIDE 53 BY-PRODUCT OF ETHYLENE 54 WULFF PROCESS-FROM ETHANE 55 SOCIETE BELEGE DE L'AZOTO
140	107020	P ACROLEIN 51 OXIDATION OF PROPYLENE
150	79061	ACRYLAMIDE 51 HYDRATION OF ACRYLONITRILE
155	9003014	* ACRYLIC RESINS 0 UNSPECIFIED PROCESS 51 SUSPENSION POLYMERIZATION 52 SOLUTION POLYMERIZATION
156	0	* ACRYLIC FIBER 51 SOLUTION POLYMERIZATION 52 SUSPENSION POLYMERIZATION 53 WET SPINNING 54 DRY SPINNING
160	0	ACRYLIC ACID AND ACRYLATE ESTERS 51 MODIFIED REPPE PROCESS 52 OXIDATION OF PROPYLENE
170	107131	P ACRYLONITRILE 51 AMMOXIDATION OF PROPYLENE
180	129049	ADIPIC ACID 51 OXIDATION OF PHENOL 52 OXIDATION OF CYCLOHEXANE
185	111693	ADIPONITRILE 0 UNSPECIFIED PROCESS

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCFDR NUMBER	CAS NUMBER	CHEMICAL/PROCESS
186	0	51 FROM BUTADIENE AND HCN 52 ELECTROLYTIC PRODUCTION FROM ACRYLONITRILE
187	309002	* MIXED ALCOHOL PHTHALATES 51 ESTERIFICATION
189	0	P-ALDRIN 0 UNSPECIFIED PROCESS 51 ACETYLENE-CYCLOPENTADIENE, HEXACHLOROCYCLOPENTADIENE
190	0	* ALKYDS AND UNSATURATED POLYESTER RESINS 51 ESTERIFICATION OF POLYHYDROIC ALCOHOLS + POLYBASIC ACIDS
200	107186	ALKYLNAPHTHALENES(METHYL) 51 COAL TAR DERIVATIVE
210	107051	ALLYL ALCOHOL 0 UNSPECIFIED PROCESS 51 FROM ACROLEIN AND SEC-BUTYL ALCOHOL 52 ISOMERIZATION OF PROPYLENE OXIDE
220	0	ALLYL CHLORIDE 51 CHLORINATION OF PROPYLENE
230	111411	AMINOBENZOIC ACID (M.P) 0 UNSPECIFIED PROCESS 51 CATALYTIC REDUCTION OF NITROBENZOIC ACIDS (M.P)
235	123308	AMINOETHYLETHANOLAMINE 0 UNSPECIFIED PROCESS 51 ETHYLENE DIAMINE WITH ETHYLENE CHLOROHYDRIN 52 ETHYLENE DIAMINE WITH ETHYLENE OXIDE
		P-AMINOPHENOL 0 UNSPECIFIED PROCESS 51 REDUCTION OF P-NITROPHENOL WITH Fe+HCL 52 ELECTROLYTIC REDUCTION OF NITROBENZENE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
240	0	ANYL ACETATES 51 ESTERIFICATION OF ANYL ALCOHOLS WITH ACETIC ACID
240	0	ANYL ALCOHOLS (8 ISOMERS) 0 UNSPECIFIED PROCESS 51 OXO PROCESS 52 HYDROLYSIS OF ANYL CHLORIDES
240	110587	ANYLAMINE 0 UNSPECIFIED PROCESS 51 ANYL CHLORIDE + AMMONIA
270	583599	ANYL CHLORIDE 51 CHLORINATION OF PENTANE/ISOPENTANE
240	0	ANYL MERCAPTANS 0 UNSPECIFIED PROCESS 51 ANYL CHLORIDE + HYDROSULFIDE
240	1322061	ANYL PHENOL 0 UNSPECIFIED PROCESS 51 UNKNOWN
300	62533	ANILINE 51 HYDROGENATION OF VAPORIZED NITROBENZENE 52 ICI PROCESS
310	142041	ANILINE HYDROCHLORIDE 51 NEUTRALIZATION
320	29191524	ANISIDINE 0 UNSPECIFIED PROCESS 51 REDUCTION OF NITROANISOLE
330	100663	ANISOLE 0 UNSPECIFIED PROCESS 51 METHYLATION OF PHENATE SALT (METHYL CHLORIDE)

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
335	120127	P* ANTHRACENE 52 METHYLATION OF PHENATE SALT (DIMETHYL SULFATE) 51 COAL TAR FRACTION
340	118923	ANTHRANILIC ACID 0 UNSPECIFIED PROCESS 51 FROM PHTHALIMIDE AND HYPOBROMITE OR HYPOCHLORITE
350	84651	ANTHRACINONE 0 UNSPECIFIED PROCESS 51 CONDENSATION OF PHTHALIC ANHYDRIDE AND BENZENE-SOLVENT 52 CONDENSATION OF PHTHALIC ANHYDRIDE + BENZENE-BALL MILL
358	50782	* ASPIRIN 51 ACETIC ANHYDRIDE AND SALICYLIC ACID
360	100527	BENZALDEHYDE 0 UNSPECIFIED PROCESS 51 OXIDATION OF TOLUENE 52 CHLORINATION OF TOLUENE + HYDROLYSIS OF BENZAL CHLORIDE
370	55210	BENZAMIDE 0 UNSPECIFIED PROCESS 51 ACYLATION OF AMMONIA WITH BENZOYL CHLORIDE
375	56553	P* BENZO(A)ANTHRACENE 51 COMBUSTION PRODUCT
380	71432	P BENZENE 51 PETROLEUM DERIVED (INCLUDES PROCESSES 53-56) 52 COAL DERIVED 53 CATALYTIC REFORMING 54 PYROLYSIS GASOLINE 55 HYDROALKYLATION 56 TOLUENE DISPROPORTIONATION
390	98486	BENZENEDISULFONIC ACID (M) 51 DIRECT SULFONATION OF BENZENE SULFONIC ACID

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
400	98113	BENZENESULFONIC ACID 51 SULFONATION OF BENZENE
405	92875	P* BENZIDINE 51 REDUCTION OF NITROBENZENE, THEN ACID TREATMENT
410	134816	BENZIL 0 UNSPECIFIED PROCESS 51 OXIDATION OF BENZOIN
420	76937	BENZILIC ACID 0 UNSPECIFIED PROCESS 51 REARRANGEMENT OF BENZIL
423	205992	P* 3,4-DIBENZOFURANTHENE 51 COMBUSTION PRODUCT
426	207089	P* 1,1,12-DIBENZOFURANTHENE 51 COMBUSTION PRODUCT
430	65850	BENZOIC ACID 51 DERIVED FROM TOLUENE BY OXIDATION
440	119539	BENZOIN 0 UNSPECIFIED PROCESS 51 CONDENSATION OF BENZALDEHYDE
445	50328	P* BENZO[AI]PYRENE 51 COMBUSTION PRODUCT
450	100470	BENZONITRILE 0 UNSPECIFIED PROCESS 51 AMMONOLYSIS OF TOLUENE
455	191242	P* 1,12-DIBENZOPERYLENE 51 COMBUSTION PRODUCT

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
440	119619	BENZOPHENONE 0 UNSPECIFIED PROCESS 51 FRIEDEL-CRAFTS-BENZENE + CCL ₄
480	98877	BENZOTRICHLORIDE 51 CHLORINATION OF TOLUENE
490	98884	BENZOYL CHLORIDE 0 UNSPECIFIED PROCESS 51 BENZOIC ACID + BENZOTRICHLORIDE
495	94860	* BENZOYL PEROXIDE 0 UNSPECIFIED PROCESS 51 BENZOYL CHLORIDE AND SODIUM PEROXIDE
500	106516	BENZYL ALCOHOL 0 UNSPECIFIED PROCESS 51 HYDROLYSIS OF BENZYL CHLORIDE 52 CATALYTIC REDUCTION OF BENZALDEHYDE
510	100469	BENZYLAMINE 51 AMMONOLYSIS OF BENZYL CHLORIDE
520	120514	BENZYL BENZOATE 0 UNSPECIFIED PROCESS 51 ESTERIFICATION OF BENZOIC ACID + BENZYL ALCOHOL 52 CANNIZZARO REACTION WITH BENZALDEHYDE
530	100447	BENZYL CHLORIDE 51 CHLORINATION OF TOLUENE
540	98873	BENZYL DICHLORIDE 51 CHLORINATION OF TOLUENE
542	319846	P- BHC-ALPHA 51 CHLORINATION OF BENZENE

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
544	319857	P* BHC-BETA 51 CHLORINATION OF BENZENE
546	58899	P* BHC-GAMMA 51 CHLORINATION OF BENZENE
548	319868	P* BHC-DELTA 51 CHLORINATION OF BENZENE
550	92524	BIPHENYL 0 UNSPECIFIED PROCESS 51 THERMAL DEHYDROGENATION OF BENZENE 52 BYPRODUCT OF TOLUENE DEALKYLATION
552	111911	P* BIS(2-CHLOROETHOXY)METHANE 51 FORMALDEHYDE AND ETHYLENE CHLOROHYDRIN
554	39638329	P* BIS(2-CHLOROISOPROPYL)ETHER 51 BYPRODUCT OF CHLOROHYDRIN PROCESS FOR PROPYLENE OXIDE
556	542881	P* BIS(CHLOROMETHYL)ETHER 51 CHLORINE AND METHYL ETHER 52 HCL AND FORMALDEHYDE/ETHEN DEHYDRATION
558	117817	P* BIS(2-ETHYLHEXYL) PHTHALATE 51 ESTERIFICATION 0 UNKNOWN
560	80057	BISPHENOL A 51 BROMINATION OF BENZENE
570	108861	BROMOBENZENE 51 BROMINATION OF BENZENE
575	75252	P* BROMOFORM 0 UNSPECIFIED PROCESS 51 ACETONE OR ETHANOL AND BROMINE IN BASIC MEDIUM

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPR NUMBER	CAS NUMBER	CHEMICAL/PROCESS
580	27497514	BROMONAPHTHALENE 51 BROMINATION OF NAPHTHYLENE
582	101553	p-4-BROMOPHENYL PHENYL ETHER 51 UNKNOWN
590	106990	BUTADIENE 51 HOUDEY AND ETHYLENE BY-PRODUCT 52 OXIDATIVE DEHYDROGENATION OF N-BUTENES 53 ETHYLENE BY-PRODUCT 54 HOUDEY 55 HOUDEY MODIFIED WITH OXIDATIVE DEHYDROGENATION 56 OXIDATIVE DEHYDROGENATION AND ETHYLENE BY-PRODUCT
592	25167673	N-BUTENE 0 UNSPECIFIED PROCESS 51 REFINERY GAS 52 ETHYLENE BY-PRODUCT 53 N-BUTANE DEHYDROGENATION 54 DEHYDROGENATION OF TERT-BUTYL ALCOHOL 55 BY-PRODUCT OF ALPHA OLEFINS
600	123864	N-BUTYL ACETATE 51 ESTERIFICATION
630	141322	N-BUTYLACRYLATE 0 UNSPECIFIED PROCESS 51 MODIFIED REPE 52 KETENE 53 CYANOHYDRIN 54 PROPYLENE OXIDATION 55 ESTERIFICATION
640	71363	N-BUTYL ALCOHOL 51 ALDOL CONDENSATION 52 OXO PROCESS 53 ZIEGLER-ALFOL

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
650	78922	SEC-BUTYL ALCOHOL 51 SULFURIC ACID ABSORPTION AND HYDRATION OF N-BUTENES
660	75650	TERT-BUTYL ALCOHOL 51 CATALYTIC ADDITION OF AMMONIA TO ISOBUTYL ALCOHOL 52 BY-PRODUCT OF PROPYLENE OXIDE
670	109739	N-BUTYLAMINE 0 UNSPECIFIED PROCESS 51 HYDROGENATION OF N-BUTYRALDEHYDE + ALCOHOLIC AMMONIA 52 REACTION OF AMMONIA + N-BUTYL ALCOHOL
680	13952846	SEC-BUTYLAMINE 51 REACTION OF ISOBUTYLENE AND TOLUENE THEN OXIDATION
690	75649	TERT-BUTYLAMINE 0 UNSPECIFIED PROCESS 51 ISOBUTYLENE AND HCN 52 TERTIARY BUTYL ALCOHOL AND AMMONIA
700	98737	P-TERT-BUTYLBENZOIC ACID 51 ESTERIFICATION
705	85687	P-BUTYL BENZYL PHTHALATE 51 NEUTRALIZATION
710	107680	1,3-BUTYLENE GLYCOL 0 UNSPECIFIED PROCESS 51 HYDROGENATION OF ACETALDOL
720	25167673	BUTYLENES 0 UNSPECIFIED PROCESS 51 REFINERY GAS 52 ETHYLENE BY-PRODUCT 53 N-BUTANE DEHYDROGENATION 54 DEHYDRATION OF TERT-BUTYL ALCOHOL 55 BY-PRODUCT OF ALPHAOLEFINS

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
725	109795	* BUTYL MERCAPTANS 0 UNSPECIFIED PROCESS 51 UNKNOWN
757	85701	* BUTYL PHTHALYL BUTYL GLYCOLATE 0 UNKNOWN 51 ESTERIFICATION
729	84786	* BUTYLOCTYL PHTHALATE 51 ESTERIFICATION 0 UNKNOWN
730	27170343	TERT-BUTYLPHENOL 51 PHENOL + ISOBUTYLENE-ACID OR FRIEDEL-CRAFTS CATALYSTS
750	123728	N-BUTYRALDEHYDE 0 UNSPECIFIED PROCESS 51 OXO PROCESS 52 HYDROGENATION OF CROTONALDEHYDE 53 BYPRODUCT OF ACETIC ACID PRODUCTION FROM N-BUTANE
760	107926	N-BUTYRIC ACID 0 UNSPECIFIED PROCESS 51 OXIDATION OF BUTYRALDEHYDE 52 BYPRODUCT OF ACETIC ACID PRODUCTION FROM N-BUTANE
770	106310	N-BUTYRIC ANHYDRIDE 0 UNSPECIFIED PROCESS 51 EXCHANGE BETWEEN BUTYRIC ACID AND ACETIC ANHYDRIDE 52 BUTYRIC ACID AND KETENE
780	109740	N-BUTYRONITRILE 0 UNSPECIFIED PROCESS 51 N-PROPYL CHLORIDE AND HCN
784	1592230	* CALCIUM STEARATE 52 BASF PROCESS

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
765	105602	CAPROLACTAM 51 PHENOL-CONVENTIONAL 52 CYCLOHEXANE-CONVENTIONAL 53 CYCLOHEXANE-DSM/HPO (STAMICARBON)
790	75150	CARBON DISULFIDE 51 VAPOR PHASE SULFUR + METHANE
800	556134	CARBON TETRABROMIDE 0 UNSPECIFIED PROCESS 51 CCL4 + ALBRS
810	56235	P CARBON TETRACHLORIDE 51 COPRODUCTION PERCHLOROETHYLENE BY THERMAL CHLORINATION 52 CHLORINATION OF METHANE 53 CHLORINATION OF CARBON DISULFIDE 54 CHLORINATION OF PROPANE
812	75730	* CARBON TETRAFLUORIDE 51 FLUORINATION OF CCL4
815	8001794	* CASTOR OIL 51 NATURAL PRODUCT
817	9005616	* CELLOPHANE 51 ALKALI CELLULOSE TREATED WITH CARBON DISULFIDE
818	9004346	* CELLULOSE (ALPHA GRADES & DISSOLVING) 51 FROM WOOD PULP OR COTTON LINTING OR OTHER NATURAL FIBERS 0 UNKNOWN
819	900368	* CELLULOSE ACETATE BUTYRATE 0 UNKNOWN 51 ACETIC ANHYDRIDE, CELLULOSE AND BUTYRIC ACID
820	9004357	CELLULOSE ACETATE 51 ESTERIFICATION OF CELLULOSE AND ACETIC ACID

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
821	9004391	* CELLULOSE ACETATE PROPIONATE 51 ACETIC ANHYDRIDE, CELLULOSE & PROPIONIC ACID 0 UNKNOWN
822	0	* CELLULOSE DERIVATIVES
824	9004700	* CELLULOSE NITRATE 51 NITRATION
826	0	CELLULOSE SPONGE 51 FROM VISCOSE CELLULOSE SYRUP
830	107200	* CHLOROACETALDEHYDE 51 UNKNOWN
840	79118	CHLOROACETIC ACID 51 CHLORINATION OF ACETIC ACID
845	1341246	* CHLOROACETOPHENONE 0 UNSPECIFIED PROCESS 51 CHLOROACETYLCHLORIDE, BENZENE, + ALUMINUM CHLORIDE
850	108429	M-CHLOROANILINE 0 UNSPECIFIED PROCESS 51 REDUCTION OF M-NITROCHLOROBENZENE 52 TREATMENT OF ANILINE IN H2SO4 WITH CL2
860	95512	O-CHLOROANILINE 0 UNSPECIFIED PROCESS 51 ACETANILIDE, ACETIC ACID, CL2; THEN DIL. ACID
870	106478	P-CHLOROANILINE 0 UNSPECIFIED PROCESS 51 ACETANILIDE, ACETIC ACID, CL2; THEN DIL. ACID
880	35913098	CHLOROBENZALDEHYDE 0 UNSPECIFIED PROCESS

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
890	108907	P CHLOROBENZENE 51 HYDROLYSIS OF CHLOROBENZENCHLORIDE FROM P-CHLOROTOLUENE
900	0	51 CHLORINATION OF BENZENE CHLOROBENZOIC ACID AND ESTERS 0 UNSPECIFIED PROCESS 51 O-P-CHLORINATION OF CHLOROTOLUENES, THEN HYDROLYSIS 52 M-CHLORINATION OF BENZOIC ACID
905	0	CHLOROBENZOTRICHLORIDE (O,P) 51 CHLORINATION OF CHLOROTOLUENES
910	1321035	CHLOROBENZYL CHLORIDE 0 UNSPECIFIED PROCESS 51 CHLOROBENZOIC ACID + CHLOROBENZOTRICHLORIDE
915	12789036	P* CHLORDANE 51 HEXACHLOROCYCLOPENTADIENE + CYCLOPENTADIENE, THEN CL2
920	25497294	CHLORODIFLUOROETHANE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF 1,1-DIFLUOROETHANE
921	75456	CHLORODIFLUOROMETHANE 0 UNSPECIFIED PROCESS 51 FLUORINATION OF CHLOROFORM
923	124481	P* CHLORODIBROMOMETHANE 51 UNKNOWN
925	110750	P* 2-CHLOROETHYL VINYL ETHER (MIXED) 51 UNKNOWN
930	67663	P CHLOROFORM 0 UNSPECIFIED PROCESS 51 CHLORINATION OF METHANE 52 HYDROCHLORINATION OF METHANOL 53 BOTH 51 & 52

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
935	0	* CHLOROMETHANES (TOTAL) 0 UNSPECIFIED PROCESS 51 CHLORINATION OF METHANE 52 HYDROCHLORINATION OF METHANOL
937	59507	* 4-CHLORO-3-METHYL PHENOL 0 UNSPECIFIED PROCESS 51 UNKNOWN
940	25586430	CHLORONAPHTHALENE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF NAPHTHALENE
945	91587	P= 2-CHLORONAPHTHALENE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF NAPHTHALENE
950	80733	O-CHLORONITROBENZENE 0 UNSPECIFIED PROCESS 51 NITRATION OF CHLOROBENZENE
951	100005	P-CHLORONITROBENZENE 0 UNSPECIFIED PROCESS 51 NITRATION OF CHLOROBENZENE
960	25167800	CHLOROPHENOLS 0 UNSPECIFIED PROCESS 51 CHLORINATION OF PHENOL
961	95578	P= 2-CHLOROPHENOL 0 UNSPECIFIED PROCESS 51 CHLORINATION OF PHENOL
963	0	P= 4-CHLOROPHENYL PHENYLETHER 51 UNKNOWN

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
964	126998	* CHLOROPRENE 51 CHLORINATION OF BUTADIENE 51 CHLORINATION OF BUTADIENE
965	7790945	CHLOROSULFONIC ACID 0 UNSPECIFIED PROCESS 51 803 + HCL
970	108418	M-CHLOROTOLUENE 0 UNSPECIFIED PROCESS 51 DIAZOTIZATION OF M-TOLUIDINE
980	95498	O-CHLOROTOLUENE 51 CHLORINATION OF TOLUENE
990	106434	P-CHLOROTOLUENE 51 CHLORINATION OF TOLUENE
992	75729	CHLOROTRIFLUOROMETHANE 0 UNSPECIFIED PROCESS 51 FLUORINATION OF CCL ₄ 52 PYROLYSIS OF CHLORODIFLUOROMETHANE
993	67481	* CHOLINE CHLORIDE 0 UNSPECIFIED PROCESS 51 FROM TRIMETHYLAMINE + ETHYLENE CHLOROHYDRIN OR OXIDE
995	218019	P-CHRYSENE 51 COAL TAR, COMBUSTION PRODUCT
996	106229	* CITRONELLOL 51 RED CTION OF CITRONELLAL OR GERANIOL
997	8007452	* COAL TAR 51 COKING

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
999	0	* COUMARONE-INDENE RESINS 51 POLYMERIZATION OF HEAVY NAPHTHA
1000	100394	M-CRESOL 0 UNSPECIFIED PROCESS 51 NAPHTHA CRACKING 52 COKING BYPRODUCTS 53 METHYLATION OF PHENOL
1010	95467	O-CRESOL 0 UNSPECIFIED PROCESS 51 NAPHTHA CRACKING 52 COKING BYPRODUCTS 53 METHYLATION OF PHENOL
1020	106445	P-CRESOL 0 UNSPECIFIED PROCESS 51 NAPHTHA CRACKING 52 COKING BYPRODUCTS 53 METHYLATION OF PHENOL 54 SULFONATION OF TOLUENE
1021	1319773	CRESOLS MIXED 0 UNSPECIFIED PROCESS 51 NAPHTHA CRACKING 52 COKING BYPRODUCTS 53 METHYLATION OF PHENOL
1030	1319773	CRESYLIC ACID 51 BY-PRODUCT OF NAPHTHA CRACKING PROCESS FOR PETROLEUM 52 BY-PRODUCT OF COAL TAR 53 CATALYZED METHYLATION OF PHENOL
1040	4170300	CROTONALDEHYDE 51 ALDOL CONDENSATION OF ACETALDEHYDE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPS NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1040	3724650	CROTONIC ACID 0 UNSPECIFIED PROCESS 51 OXIDATION OF CROTONALDEHYDE
1060	98828	CUMENE 51 ALKYLATION OF BENZENE
1070	80159	CUMENE HYDROPEROXIDE 51 OXIDATION OF CUMENE
1080	372098	CYANOACETIC ACID 0 UNSPECIFIED PROCESS 51 SODIUM CHLOROACETATE + SODIUM CYANIDE
1090	506774	CYANOGEN CHLORIDE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF HYDROGEN CYANIDE
1100	108805	CYANURIC ACID 51 THERMAL DECOMPOSITION OF UREA
1110	108770	CYANURIC CHLORIDE 0 UNSPECIFIED PROCESS 51 POLYMERIZATION OF CYANOGEN CHLORIDE
1120	110627	CYCLOHEXANE 51 HYDROGENATION OF BENZENE 52 FROM NATURAL GASOLINE 53 BOTH 51 & 52
1130	108930	CYCLOHEXANOL 0 UNSPECIFIED PROCESS 51 OXIDATION OF CYCLOHEXANE 52 HYDROGENATION OF PHENOL
1140	108941	CYCLOHEXANONE 51 OXIDATION OF CYCLOHEXANE

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1140	110836	52 HYDROGENATION OF PHENOL
		CYCLOHEXENE
		0 UNSPECIFIED PROCESS
		51 DEHYDRATION OF CYCLOHEXANOL
		52 DEHYDROHALOGENATION OF HALOCYCLOHEXANES
1160	106916	CYCLOHEXYLAMINE
		0 UNSPECIFIED PROCESS
		51 REDUCTION OF ANILINE
		52 REDUCTIVE AMINATION OF CYCLOHEXANONE
1170	111764	1,5-CYCLOOCTADIENE
		51 DIMERIZATION OF BUTADIENE
1172	72548	P* 4,4,4'-DDD
		51 CHLORINATION OF ETH & CONDENSATION WITH CHLOROBENZENE
1174	72559	P* 4,4,4'-DDE
		51 DEGRADATION OF DDT
1176	50293	P* 4,4,4'-DDT
		51 CONDENSATION OF CHLORAL + CHLOROBENZENE
1180	112301	DECANOL
		0 UNSPECIFIED PROCESS
		51 OXO PROCESS
		52 ALFOL PROCESS
		53 REDUCTION OF ESTERS
		54 SAPONIFICATION OF ESTERS
		55 ALDOL CONDENSATION
		56 PARAFFIN OXIDATION
1190	123422	DIACETONE ALCOHOL
		51 CONDENSATION OF ACETONE
1195	25053150	* DIALLYL PHTHALATE RESINS
		51 ALLYL ALCOHOL + PHTHALIC ANHYDRIDE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1196	33703	* 1,2,5,6-DIBENZANTHRACENE 51 COMBUSTION PRODUCT
1197	84742	P* DI-N-BUTYL PHTHALATE 51 ESTERIFICATION
1200	27576041	DIAMINOBENZOIC ACID 0 UNSPECIFIED PROCESS 51 REDUCTION OF DINITROBENZOIC ACIDS
1210	0	DICHLOROANILINE 0 UNSPECIFIED PROCESS 51 REDUCTION OF DICHLORONITROBENZENE
1212	84684	P* 2,3'-DICHLOROBENZIDINE 51 UNKNOWN
1213	91941	P* 3,3'-DICHLOROBENZIDINE 51 UNKNOWN
1214	0	P* 2,3'-DICHLOROBENZIDINE 51 UNKNOWN
1215	541731	P M-DICHLOROBENZENE 51 ISOMERIZATION OF O OR P ISOMERS
1216	95501	P O-DICHLOROBENZENE 51 CHLORINATION OF BENZENE
1220	106467	P P-DICHLOROBENZENE 51 CHLORINATION OF BENZENE
1221	75710	P DICHLORODIFLUOROMETHANE 51 REPLACEMENT-CCl ₄ + SF ₆
1225	75343	P* 1,1-DICHLOROETHANE 51 UNKNOWN

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1235	156592	P* 1,2-DICHLOROETHYLENE (CIS) 51 CHLORINATION OF ACETYLENE
1236	540590	P* 1,2-TRANS-DICHLOROETHYLENE 51 UNKNOWN
1240	111444	DICHLOROETHYL ETHER 0 UNSPECIFIED PROCESS 51 ETHYLENE CHLOROHYDRIN + SULFURIC ACID 52 CHLORINATION OF ETHYL ETHER 53 AC-ETHYLENE CHLOROHYDRIN, CHLORINE, ETHYLENE
1243	75274	P* DICHLOROBROMOMETHANE 51 UNKNOWN
1244	107062	P* 1,2-DICHLOROETHANE 51 BALANCED PROCESS 52 OXYCHLORINATION AND DIRECT CHLORINATION 53 DIRECT CHLORINATION
1246	542801	* DICHLOROMETHYL ETHER 0 UNSPECIFIED PROCESS 51 CHLORINATION OF METHYL ETHER 52 HCL + FORMALDEHYDE
1250	96231	DICHLOROHYDRIN 0 UNSPECIFIED PROCESS 51 GLYCEROL + HCL 52 INTERMEDIATE IN GLYCERINE PRODUCTION 53 CHLORINATION OF ALLYL ALCOHOL 54 CHLOROHYDRINATION OF ALLYL CHLORIDE
1265	120032	P* 2,4-DICHLOROPHENOL 0 UNSPECIFIED PROCESS 51 CHLORINATION OF PHENOL

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1266	78999	P* 1,1-DICHLOROPROPANE 51 ACETONE AND PCL3
1268	0	P* 2,2-DICHLOROPROPANE 51 UNKNOWN
1270	26952238	DICHLOROPROPENE 0 UNSPECIFIED PROCESS 51 BYPRODUCT OF ALLYL CHLORIDE PRODUCTION
1271	542756	P* 1,3-DICHLOROPROPENE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF PROPYLENE
1272	0	P* 1,1-DICHLOROPROPENE 51 HIGH-TEMPERATURE REACTION OF PROPYLENE & CHLORINE
1273	0	P* 1,2-DICHLOROPROPENE (CIS) 51 HIGH-TEMPERATURE REACTION OF PROPYLENE & CHLORINE
1274	0	P* 1,2-DICHLOROPROPENE (TRANS) 51 HIGH-TEMPERATURE REACTION OF PROPYLENE & CHLORINE
1275	1320372	* DICHLOROTETRAFLUOROETHANE 0 UNSPECIFIED PROCESS 51 PERCHLOROETHYLENE, CHLORINE + HF 52 FROM DIFLUOROETHANE
1276	0	P* 1,3-DICHLOROPROPENE (CIS) 51 HIGH-TEMPERATURE REACTION OF PROPYLENE & CHLORINE
1277	0	P* 1,3-DICHLOROPROPENE (TRANS) 51 HIGH-TEMPERATURE REACTION OF PROPYLENE & CHLORINE
1280	101037	DICYCLOHEXYLAMINE 0 UNSPECIFIED PROCESS 51 CATALYTIC HYDROGENATION OF ANILINE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1281	84775	P= DIDECYL PHTHALATE 51 ESTERIFICATION
1283	60571	P= DIELORIN 51 EPOXIDATION OF ALDRIN
1290	109897	DIETHYLAMINE 51 ETHANOL + AMMONIA
1300	111466	DIETHYLENE GLYCOL 51 HYDRATION OF ETHYLENE OXIDE
1304	112367	DIETHYLENE GLYCOL DIETHYL ETHER 51 ETHYLENE GLYCOL MONOETHYL ETHER + CHLOROETHANE
1305	111966	DIETHYLENE GLYCOL DIMETHYL ETHER 0 UNSPECIFIED PROCESS 51 ETHYLENE GLYCOL MONOMETHYL ETHER + CHLOROMETHANE
1310	112345	DIETHYLENE GLYCOL MONOBUTYL ETHER 0 UNSPECIFIED PROCESS 51 ETHYLENE OXIDE AND BUTANOL
1320	128174	DIETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 0 UNSPECIFIED PROCESS 51 ESTERIFICATION WITH ACETIC ACID
1330	111900	DIETHYLENE GLYCOL MONOETHYL ETHER 0 UNSPECIFIED PROCESS 51 ETHYLENE OXIDE AND ETHANOL
1340	112152	DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE 51 ESTERIFICATION WITH ACETIC ACID
1340	111773	DIETHYLENE GLYCOL MONOMETHYL ETHER 51 ETHYLENE OXIDE AND METHANOL

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1390	84662	P* DIETHYL PHTHALATE 51 ESTERIFICATION
1395	84753	P* DI-N-HEXYL PHTHALATE 0 UNKNOWN 51 ESTERIFICATION
1390	117840	P* DI-N-OCTYL PHTHALATE 51 ESTERIFICATION
1420	64675	DIETHYL SULFATE 0 UNSPECIFIED PROCESS 51 SULFURIC ACID + ETHYLENE
1430	75376	DIFLUOROETHANE 0 UNSPECIFIED PROCESS 51 ADDITION OF HF TO ACETYLENE
1440	25167708	DIISOBUTYLENE 51 OLIGOMERIZATION OF ISOBUTYLENE
1441	84695	* DI-ISOBUTYL PHTHALATE 51 ESTERIFICATION 0 UNKNOWN
1442	26741400	* DIISODECYL PHTHALATE 51 ESTERIFICATION
1444	27589263	* DIISOOCTYL PHTHALATE 51 ESTERIFICATION 0 UNKNOWN
1446	108189	* DIISOPROPYL AMINE 51 ISOPROPYL CHLORIDE + AMMONIA
1450	674828	DIKETENE 51 SPONTANEOUS POLYMERIZATION OF KETENE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1460	124403	DIMETHYLAMINE 51 METHANOL AND AMMONIA
1465	108010	* 2-DIMETHYL AMINOETHANOL 0 UNSPECIFIED PROCESS 51 ETHYLENE OXIDE AND DIMETHYLAMINE
1470	121697	N,N-DIMETHYLANILINE 0 UNSPECIFIED PROCESS 51 ANILINE + METHANOL
1480	115106	DIMETHYL ETHER 0 UNSPECIFIED PROCESS 51 METHANOL + SULFURIC ACID 52 COPRODUCT OF FORMALDEHYDE
1490	68122	N,N-DIMETHYLFORMAMIDE 51 METHYL FORMATE + DIMETHYLAMINE
1495	57147	1,1-DIMETHYL HYDRAZINE 0 UNSPECIFIED PROCESS 51 DIMETHYLAMINE AND CHLORAMINE 52 OXIDATION OF DIMETHYLAMINE + AMMONIA
1496	105679	P= 2,4-DIMETHYL PHENOL 0 UNSPECIFIED PROCESS 51 FRACTIONATION OF SODIUM CARBOLATE 52 METHYLATION OF PHENOL
1497	131113	P= DIMETHYL PHTHALATE 51 ESTERIFICATION
1500	77781	DIMETHYL SULFATE 0 UNSPECIFIED PROCESS 51 DIMETHYL ETHER + SULFUR TRIOXIDE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1510	75183	DIMETHYL SULFIDE 0 UNSPECIFIED PROCESS 51 METHANOL + CARBON DISULFIDE
1520	67685	DIMETHYL SULFOXIDE 0 UNSPECIFIED PROCESS 51 OXIDATION OF DIMETHYL SULFIDE WITH NO2
1550	120616	DIMETHYL TEREPHTHALATE 51 OXIDATION OF P-XYLENE
1555	25134545	* DINITROBENZENES 51 NITRATION OF NITROBENZENE
1560	99343	3,5-DINITROBENZOIC ACID 0 UNSPECIFIED PROCESS 51 NITRATION OF BENZOIC ACID
1563	534521	P= 4,6-DINITRO-O-CRESOL 51 UNKNOWN
1565	51265	P 2,4-DINITROPHENOL 0 UNSPECIFIED PROCESS 51 NITRATION OF PHENOL
1590	25321146	DINITROTOLUENE 51 NITRATION OF TOLUENE
1591	121142	P= 2,4-DINITROTOLUENE 51 NITRATION OF TOLUENE
1592	606202	P= 2,6-DINITROTOLUENE 51 NITRATION OF TOLUENE
1593	602017	P= 2,3-DINITROTOLUENE 51 NITRATION OF TOLUENE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCFDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1554	619156	P* 2,5-DINITROTOLUENE 51 NITRATION OF TOLUENE
1555	610399	P* 3,4-DINITROTOLUENE 51 NITRATION OF NITROTOLUENE
1556	0	P* 3,5-DINITROTOLUENE 51 NITRATION OF NITROTOLUENE
1557	122667	P* 1,2-DIPHENYLHYDRAZINE 51 UNKNOWN
1558	930307	P* N,N-DIPHENYLHYDRAZINE 51 REDUCTION OF N,N-DIPHENYL NITROSAMINES
1560	123911	DIOXANE 0 UNSPECIFIED PROCESS 51 FROM ETHYLENE GLYCOL
1570	157000	DIOXOLANE 0 UNSPECIFIED PROCESS 51 FORMALDEHYDE + ETHYLENE GLYCOL
1580	122394	DIPHENYLAMINE 0 UNSPECIFIED PROCESS 51 CONDENSATION OF ANILINE
1587	101815	* DIPHENYL METHANE 0 UNSPECIFIED PROCESS 51 CONDENSATION OF BENZYL BENZENE + BENZENE
1589	84628	* DIPHENYL PHTHALATE 51 ESTERIFICATION 0 UNKNOWN
1590	101840	DIPHENYL OXIDE 0 UNSPECIFIED PROCESS

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1600	102089	51 CHLOROBENZENE + PHENOL 52 BYPRODUCT OF PHENOL FROM CHLOROBENZENE
1610	29265710	DIPHENYLTHIOUREA 0 UNSPECIFIED PROCESS 51 ANILINE, C82, ALCOHOL IN PRESENCE OF SULFUR
1615	119062	DIPROPYLENE GLYCOL 0 UNSPECIFIED PROCESS 51 HYDRATION OF PROPYLENE OXIDE 52 BYPRODUCT OF PROPYLENE GLYCOL PRODUCTION 53 ADDITION OF PROPYLENE OXIDE TO PROPYLENE GLYCOL 52 BYPRODUCT OF PROPYLENE GLYCOL PRODUCTION
1620	29378227	* DI-TRIDECYL PHTHALATE 51 ESTERIFICATION 0 UNKNOWN
1630	28675174	DODECENE 51 POLYMERIZATION OF PROPYLENE
1635	112550	DODECYLANILINE 0 UNSPECIFIED PROCESS 51 UNKNOWN
1640	27193868	* DODECYL MERCAPTAN 0 UNSPECIFIED PROCESS 51 UNKNOWN
1642	959968	DODECYLPHENOL 51 ALKYLATION OF PHENOL
1643	33213659	P* ENDOSULFAN-ALPHA 51 CIS-2-BUTENE AND HEXACHLOROCYCLOPENTADIENE (HEX) P* ENDOSULFAN-BETA 51 CIS-2-BUTENE AND HEXACHLOROCYCLOPENTADIENE (HEX)

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1644	1031070	P* ENDOSULFAN SULFATE 51 CIS-2-BUTENE AND HEXACHLOROCYCLOPENTADIENE(HEX)
1646	72200	P* ENDRIN 51 EPOXIDATION OF ALDRIN WITH PERACETIC ACID
1647	74934	P* ENDRIN ALDEHYDE 51 PHOTOISOMERIZATION OF ENDRIN
1648	53494705	* ENDRIN KETONE 51 PHOTOISOMERIZATION OF ENDRIN
1650	106890	EPICHLOROHYDRIN 51 CHLOROHYDRINATION OF ALLYL CHLORIDE PRODUCED FROM PROPYLENE
1653	0	* EPOXIDIZED ESTERS
1656	0	* EPOXY RESINS 0 UNSPECIFIED PROCESS 51 EPOXIDATION 52 CONDENSATION OF EPICHLOROHYDRIN WITH POLYOLS
1660	64175	ETHANOL-SYNTHETIC 0 UNSPECIFIED PROCESS 51 HYDRATION OF ETHYLENE 52 FERMENTATION 53 OXO PROCESS 54 BYPRODUCT OF OXIDATION OF N-BUTANE FOR ACETIC ACID
1661	0	ETHANOLAMINES 51 ETHYLENE OXIDE + AMMONIA
1670	141706	ETHYL ACETATE 0 UNSPECIFIED PROCESS 51 ESTERIFICATION 52 BYPRODUCT OF N-BUTANE OXIDATION

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1680	141979	ETHYL ACETOACETATE 0 UNSPECIFIED PROCESS 51 ETHYL ACETATE + SODIUM OR SODIUM ETHOXIDE
1690	140885	ETHYL ACRYLATE 51 ESTERIFICATION 52 MODIFIED REPE 53 PROPYLENE OXIDATION
1700	75047	ETHYLAMINE 51 ETHANOL & AMMONIA
1710	100414	P ETHYLBENZENE 0 UNSPECIFIED PROCESS 51 ALKYLATION OF BENZENE WITH ETHYLENE 52 FROM MIXED XYLENE STREAMS 53 BYPRODUCT OF CUMENE MANUFACTURE 54 BOTH 51 & 52
1720	74964	ETHYL BROMIDE 51 ETHYLENE & HYDROGEN BROMIDE
1730	9004573	ETHYL CELLULOSE 51 ETHYL CHLORIDE & CELLULOSE
1740	75003	ETHYL CHLORIDE 0 UNSPECIFIED PROCESS 51 HYDROCHLORINATION OF ETHYLENE 53 BOTH 51 & 52 52 CHLORINATION OF ETHANE
1750	105395	ETHYL CHLOROACETATE 0 UNSPECIFIED PROCESS 51 ESTERIFICATION OF CHLOROACETIC ACID + ETHANOL
1760	105566	ETHYLCYANOACETATE 0 UNSPECIFIED PROCESS

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1770	74851	ETHYLENE 51 ESTERIFICATION OF CYANOACETIC ACID → ETHANOL
		0 UNSPECIFIED PROCESS
		51 PYROLYSIS OF ETHANE/PROPANE/BUTANE
		52 PYROLYSIS OF GAS OIL OR NAPHTHA
		53 PYROLYSIS OF ETHANE/PROPANE & REFINERY GAS
		54 MIXED FEEDSTOCKS
		55 FROM REFINERY GAS
1740	96491	ETHYLENE CARBONATE 0 UNSPECIFIED PROCESS
		51 ETHYLENE OXIDE AND CARBON DIOXIDE
1790	107073	ETHYLENE CHLOROHYDRIN 51 ETHYLENE & HYPOCHLOROUS ACID
1000	107153	ETHYLENE DIAMINE 51 ETHYLENE DICHLORIDE & AMMONIA
1810	106934	ETHYLENE DIBROMIDE 51 ADDITION OF BROMINE TO ETHYLENE
1030	107211	ETHYLENE GLYCOL 0 UNSPECIFIED PROCESS
		51 HYDRATION OF ETHYLENE OXIDE FROM OXIDATION OF ETHYLENE
		52 ETHYLENE + ACETIC ACID; THEN HYDROLYSIS
		53 ETHYLENE + HYPOCHLOROUS ACID
1040	111557	ETHYLENE GLYCOL DIACETATE 0 UNSPECIFIED PROCESS
		51 ESTERIFICATION
1070	110714	ETHYLENE GLYCOL DIMETHYL ETHER 0 UNSPECIFIED PROCESS
		51 ETHYLENE GLYCOL MONOMETHYL ETHER + METHYL CHLORIDE
1090	111762	ETHYLENE GLYCOL MONOBUTYL ETHER 51 ETHYLENE OXIDE & BUTANOL

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

		CHEMICAL/PROCESS	
OCPOB NUMBER	CAS NUMBER		
1900	112072	ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	
		0 UNSPECIFIED PROCESS	
		51 ESTERIFICATION WITH ACETIC ACID	
1910	110805	ETHYLENE GLYCOL MONOETHYL ETHER	
		51 ETHYLENE OXIDE & ETHANOL	
1920	111159	ETHYLENE GLYCOL MONOETHYL ETHER ACETATE	
		0 UNSPECIFIED PROCESS	
		51 ESTERIFICATION WITH ACETIC ACID	
1930	109864	ETHYLENE GLYCOL MONOMETHYL ETHER	
		51 ETHYLENE OXIDE & METHANOL	
1940	110494	ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE	
		0 UNSPECIFIED PROCESS	
		51 ESTERIFICATION WITH ACETIC ACID	
1960	122996	ETHYLENE GLYCOL MONOPHENYL ETHER	
		0 UNSPECIFIED PROCESS	
		51 ETHYLENE OXIDE & PHENOL	
1970	2807509	ETHYLENE GLYCOL MONOPROPYL ETHER	
		51 ETHYLENE OXIDE & PROPANOL	
1980	75218	ETHYLENE OXIDE	
		0 UNSPECIFIED PROCESS	
		51 OXIDATION OF ETHYLENE	
		52 CHLOROHYDRIN PROCESS (OBSOLETE)	
1985	24937788	ETHYLENE-VINYL ACETATE COPOLYMERS	
		51 EMULSION POLYMERIZATION	
1990	60297	ETHYL ETHER	
		0 UNSPECIFIED PROCESS	
		51 COPRODUCT OF DIRECT HYDRATION OF ETHYLENE FOR ETHANOL	
		52 INDIRECT HYDRATION OF ETHYLENE WITH SULFURIC ACID	

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
1995	149575	* ETHYLHEXANOIC ACID 0 UNSPECIFIED PROCESS 51 SAPONIFICATION OF GLYCERIDES, AND PURIFICATION
2000	104767	2-ETHYL HEXANOL 51 OXO PROCESS
2007	75081	* ETHYL MERCAPTAN 0 UNSPECIFIED PROCESS 51 ETHYLENE AND HYDROGEN SULFIDE
2010	122510	ETHYL ORTHOFORMATE 0 UNSPECIFIED PROCESS 51 HCN, ETHANOL, + HCL
2020	95921	ETHYL OXALATE 51 ESTERIFICATION
2030	0	ETHYL SODIUM OXALACETATE 0 UNSPECIFIED PROCESS 51 ETHYL ACETATE, DIETHYLOXALATE, + SODIUM ETHOXIDE
2033	206440	P* FLUORANTHENE 51 COMBUSTION PRODUCT
2035	0	* FLUOROCARBON POLYMERS 51 TYPICAL POLYMERIZATION PROCESS
2037	86737	P* FLUORENE 51 COMBUSTION PRODUCT
2040	50000	FORMALDEHYDE 51 OXIDATION OF METHANOL
2050	75127	FORMAMIDE 0 UNSPECIFIED PROCESS 51 AMMONIA + METHYL FORMATE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2060	64166	FORMIC ACID 0 UNSPECIFIED PROCESS 51 BYPRODUCT OF ACETIC ACID FROM BUTANE
2070	110178	FUMARIC ACID 51 ISOMERIZATION OF MALEIC ACID PRODUCED FROM BENZENE 52 FROM MALEIC ANHYDRIDE
2073	98011	* FURFURAL 51 HYDROLYSIS OF PETOSANS FROM AGRICULTURAL RESIDUES
2075	106241	* GERANIOL 0 UNSPECIFIED PROCESS 51 FROM CITRONELLA + PALMEROSA OILS 52 FROM PINENE
2080	142472	* GLUTAMIC ACID, MONOSODIUM SALT 0 UNSPECIFIED PROCESS 51 FERMENTATION 52 EXTRACTION FROM NATURAL SOURCES
2090	56815	GLYCEROL (NATURAL + SYNTHETIC) 51 REFINED NATURAL GLYCEROL 52 ALLYL CHLORIDE-EPOCHLOROHYDRIN 53 ALLYL ALCOHOL-PERACETIC ACID 54 ACROLEIN-ALLYL ALCOHOL
2091	26545733	GLYCEROL DICHLOROHYDRIN 0 UNSPECIFIED PROCESS 51 GLYCEROL + HCL
2100	25791962	GLYCEROL TRI(POLYXYPROPYLENE)ETHER 0 UNSPECIFIED PROCESS 51 GLYCEROL + PROPYLENE OXIDE
2105	956525	* GLYCIDOL 0 UNSPECIFIED PROCESS

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2110	56406	51 MONOCHLOROHYDRIN + BASE 52 ALLYL ALCOHOL + PERACETIC ACID
2120	107222	GLYCINE 0 UNSPECIFIED PROCESS 51 AMMONOLYSIS OF CHLOROACETIC ACID
2130	76446	GLYOXAL 0 UNSPECIFIED PROCESS 51 OXIDATION OF ACETALDEHYDE
2135	0	P= HEPTACHLOR 51 CHLORINATION OF CHLORDENE
2137	0	P= HEPTACHLOR EPOXIDE 51 DEGRADATION PRODUCT OF HEPTACHLOR • N-HEPTYL-NONYL-UNDECYL PHTHALATE 51 ESTERIFICATION
2140	25339564	HEPTENE 51 POLYMERIZATION OF C3-C4 REFINERY GASES
2145	118741	P HEXACHLOROBENZENE 51 BYPRODUCT OF TETRACHLOROETHYLENE
2147	87683	P= HEXACHLOROBUTADIENE 0 UNSPECIFIED PROCESS 51 FRIEDEL-CRAFTS CONDENSATION OF TRICHLOROETHYLENE
2148	0	P= HEXACHLOROCYCLOHEXANE (MIXED ISOMERS) 0 UNKNOWN 51 CHLORINATION OF BENZENE
2149	77474	P= HEXACHLOROCYCLOPENTADIENE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF PENTANES

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2140	67721	P HEXACHLOROETHANE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF PERCHLOROETHYLENE
2140	36653824	HEXADECYL ALCOHOL 0 UNSPECIFIED PROCESS 51 REDUCTION OF ESTERS 52 ALFOL PROCESS 53 MODIFIED ZIEGLER PROCESS
2145	124174	HEXAMETHYLENEDIAMINE 0 UNSPECIFIED PROCESS 51 FROM HEXANEDIOL 52 FROM BUTADIENE 53 FROM ACRYLONITRILE 54 FROM ADIPIC ACID
2170	629118	HEXAMETHYLENE GLYCOL 51 CATALYTIC REDUCTION OF DIETHYL ADIPATE
2180	100970	HEXAMETHYLENE TETRAMINE 51 CONDENSATION OF FORMALDEHYDE & AMMONIA
2181	0	* N-HEXYL-2-ETHYLHEXYL-ISODECYL PHTHALATE 51 ESTERIFICATION
2182	0	* N-HEXYL-2-ETHYLHEXYL PHTHALATE 51 ESTERIFICATION
2183	0	* N-HEXYL-OCTYL-DECYL PHTHALATE 51 ESTERIFICATION 0 UNKNOWN
2185	0	* HYDRAZINE SOLUTIONS 0 UNSPECIFIED PROCESS 51 AMMONIA AND SODIUM HYPOCHLORITE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPDB NUMMR	CAS NUMBER	CHEMICAL/PROCESS
2190	74900	HYDROGEN CYANIDE 0 UNSPECIFIED PROCESS 51 BYPRODUCT OF ACRYLONITRILE 52 AMMONIA, AIR, METHANE
2200	123319	HYDROQUINONE 0 UNSPECIFIED PROCESS 51 OXIDATION OF ALKYLATED BENZENE 52 OXIDATION OF ANILINE! THEN REDUCTION OF P-BENZOQUINONE
2210	99967	P-HYDROXYBENZOIC ACID 0 UNSPECIFIED PROCESS 51 P-AMINOBENZOIC ACID + NITROUS ACID
2215	0	* HYDROXYETHYL TEREPHTHALATE 51 UNKNOWN
2217	9004620	P* HYDROXYETHYL CELLULOSE 0 UNKNOWN 51 ETHYLENE OXIDE AND CELLULOSE
2218	9004624	P* HYDROXYPROPYL CELLULOSE 51 PROPYLENEOXIDE AND CELLULOSE 0 UNKNOWN
2220	111422	* 2,5-IMINODIETHANOL 0 UNSPECIFIED PROCESS 51 ETHYLENE OXIDE + AMMONIA
2230	8013909	* IONONE 51 CONDENSATION OF CITRAL
2235	193395	P* INDENO(1,2,3-c,d)PYRENE 51 COMBUSTION PRODUCT
2240	26760645	ISOAMYLENE 0 UNSPECIFIED PROCESS

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2250	78831	ISOBUTANOL 51 EXTRACTION FROM CATALYTICALLY CRACKED GASOLINE STREAM
2260	110190	51 HYDROGENATION OF ISOBUTYRALDEHYDE FROM OXO PROCESS
2261	115117	ISOBUTYL ACETATE 51 ESTERIFICATION
		ISOBUTYLENE 0 UNSPECIFIED PROCESS 51 EXTRACTION FROM A MIXTURE OF C-4 HYDROCARBONS 52 N-BUTANE DEHYDROGENATION 53 DEHYDRATION OF TERT-BUTYL ALCOHOL 54 BY-PRODUCT OF ETHYLENE PRODUCTION
2270	78842	ISOBUTYRALDEHYDE 51 OXO PROCESS
2280	79312	ISOBUTYRIC ACID 0 UNSPECIFIED PROCESS 51 OXIDATION OF ISOBUTYRALDEHYDE
2300	25339177	ISOOCTANOL 51 OXO PROCESS
2320	26952216	ISOOCTYL ALCOHOL 51 OXO PROCESS
2321	78784	ISOPENTANE 51 FROM PETROLEUM OR NATURAL GAS LIQUIDS
2330	78591	P ISOPHORONE 51 CONDENSATION OF ACETONE
2340	121915	ISOPHTHALIC ACID 51 OXIDATION OF M-XYLENE
2350	78795	ISOPRENE 51 EXTRACTION FROM A MIXTURE OF C-5 HYDROCARBONS

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPS NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2360	67630	ISOPROPANOL 51 SULFURIC ACID ABSORPTION OF PROPYLENE 52 CATALYTIC HYDROGENATION OF ACETONE
2370	106214	ISOPROPYL ACETATE 0 UNSPECIFIED PROCESS 51 ESTERIFICATION
2380	75310	ISOPROPYLAMINE(MONO) 0 UNSPECIFIED PROCESS 51 AMMONIA + ISOPROPYL ALCOHOL
2390	75296	ISOPROPYL CHLORIDE 51 ISOPROPANOL + HYDROCHLORIC ACID
2395	106203	* ISOPROPYL ETHER 51 BYPRODUCT OF ISOPROPYL ALCOHOL PRODUCTION
2400	25168063	ISOPROPYL PHENOL 0 UNSPECIFIED PROCESS 51 FRIEDEL-CRAFTS-ISOPROPYL CHLORIDE + PHENOL
2410	963514	KETENE 51 PYROLYSIS OF ACETONE 0 UNSPECIFIED 58 DEHYDRATION OF ACETIC ACID 0 UNSPECIFIED PROCESS
2414	0	* LINEAR ALKYLATE SULFONATE 51 SULFONATION OF LINEAR ALKYL BENZENE
2417	0	* LINEAR ALKYL BENZENE 51 MONOCHLOROPARAFFIN & ALUMINUM CHLORIDE & BENZENE 52 INTERNAL OLEFINS & HYDROGEN FLUORIDE & BENZENE 0 UNSPECIFIED

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2420	110167	MALEIC ACID 0 UNSPECIFIED PROCESS 51 OXIDATION OF BENZENE 52 OXIDATION OF BUTANE 53 BYPRODUCT OF PHTHALIC ANHYDRIDE
2430	108316	MALEIC ANHYDRIDE 51 OXIDATION OF BENZENE 52 OXIDATION OF N-BUTANE 53 PHTHALIC ANHYDRIDE BY-PRODUCT
2440	691517	MALEIC ACID 51 HYDRATION OF MALEIC ACID
2442	0	* MELAMINE
2443	0	* MELAMINE-FORMALDEHYDE RESINS 51 CONTROLLED POLYMERIZATION OF MELAMINE & FORMALDEHYDE
2450	141797	MESITYL OXIDE 51 DEHYDRATION OF DIACETONE ALCOHOL
2455	121471	METANILIC ACID 0 UNSPECIFIED PROCESS 51 REDUCTION OF M-NITROBENZENE SULFONIC ACID
2460	79414	METHACRYLIC ACID 51 FROM ACETONE CYANOHYDRIN
2490	563473	METHALLYL CHLORIDE 51 ISOBUTYLENE & CHLORINE
2500	67561	METHANOL 0 UNSPECIFIED PROCESS 51 HIGH PRESSURE PROCESS 52 ICI LOW PRESSURE PROCESS 53 BYPRODUCT OF POLYESTER PRODUCTION

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2510	79209	METHYL ACETATE 0 UNSPECIFIED PROCESS 51 ESTERIFICATION 52 BYPRODUCT OF ACETIC ACID FROM BUTANE
2520	105453	METHYL ACETOACETATE 0 UNSPECIFIED PROCESS 51 METHYL ACETATE + SODIUM
2530	74695	METHYLAMINE 51 AMMONIA & METHANOL
2540	100610	N-METHYLANILINE 0 UNSPECIFIED PROCESS 52 ANILINE + METHYL IODIDE 51 ANILINE + METHANOL
2545	74839	P- METHYL BROMIDE 51 METHANOL & HBR
2547	591786	+ METHYL BUTYL KETONE 0 UNSPECIFIED PROCESS 51 HYDRATION OF 2-HEXYNE
2550	37363712	METHYL BUTYNOL 51 ACETYLENE AND FORMALDEHYDE
2560	74873	P METHYL CHLORIDE 51 FROM METHANE 52 FROM METHANOL
2570	100672	METHYLCYCLOHEXANE 0 UNSPECIFIED PROCESS 51 REDUCTION OF TOLUENE
2590	1331222	METHYLCYCLOHEXANONE 0 UNSPECIFIED PROCESS

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2620	75092	P METHYLENE CHLORIDE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF METHANE 52 CHLORINATION OF METHANOL 53 BOTH 51 & 52
2630	101779	METHYLENE DIANILINE 51 CONDENSATION OF ANILINE & FORMALDEHYDE
2635	101688	* METHYLENE DIPHENYL DIISOCYANATE 51 PHOSGENATION OF METHYLENE DIANILINE
2640	78933	METHYL ETHYL KETONE 0 UNSPECIFIED PROCESS 51 DEHYDROGENATION OF SEC-BUTYL ALCOHOL 52 BUTANE OXIDATION FOR ACETIC ACID
2645	107313	METHYL FORMATE 0 UNSPECIFIED PROCESS 51 METHANOL + SYN GAS
2647	1335462	* METHYLIONONES 51 CONDENSATION OF CITRAL WITH MEK, THEN CYCLIZATION
2650	108112	METHYL ISOBUTYL CARBINOL 0 UNSPECIFIED PROCESS 51 COPRODUCT OF METHYL ISOBUTYL KETONE 52 HYDROGENATION OF METHYL ISOBUTYL KETONE
2660	108101	METHYL ISOBUTYL KETONE 51 HYDROGENATION OF MESITYL OXIDE
2662	74931	* METHYL MERCAPTAN 0 UNSPECIFIED PROCESS 51 METHANOL + HYDROGEN SULFIDE

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CHEMICALS AND PROCESSES

OCPDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2665	80626	METHYL METHACRYLATE 51 REACTION OF ACETONE AND HYDROGEN CYANIDE 52 DISTILLATION OF CRUDE MONOMER PRODUCED AT OTHER LOCATION
2670	77750	METHYLPENTYNOL 0 UNSPECIFIED PROCESS 51 ACETYLATION OF 2-BUTANONE
2680	119368	* METHYL SALICYLATE 51 ESTERIFICATION
2690	98839	A-METHYLSTYRENE 0 UNSPECIFIED PROCESS 51 DEHYDROGENATION OF CUMENE 52 BY-PRODUCT OF PHENOL/ACETONE
2700	110918	MORPHOLINE 0 UNSPECIFIED PROCESS 51 DEHYDRATION OF DIETHANOLAMINE
2701	91203	P NAPHTHALENE 51 COAL DERIVED 52 PETROLEUM DERIVED
2710	85472	A-NAPHTHALENE SULFONIC ACID 0 UNSPECIFIED PROCESS 51 SULFONATION OF NAPHTHALENE
2720	120183	B-NAPHTHALENE SULFONIC ACID 0 UNSPECIFIED PROCESS 51 SULFONATION OF NAPHTHALENE
2730	90153	A-NAPHTHOL 0 UNSPECIFIED PROCESS 51 FUSION OF A-NAPHTHALENE SULFONATE + CAUSTIC SODA

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2740	135193	8-NAPHTHOL 51 PEROXIDATION OF 2-ALKYL NAPHTHALENE
2750	75989	NEOPENTANOIC ACID 0 UNSPECIFIED PROCESS 51 CARBOXYLATION OF ISOBUTYLENE 52 TERT-BUTYL ALCOHOL, H ₂ SO ₄ , + FORMIC ACID
2756	80744	0-NITROANILINE 0 UNSPECIFIED PROCESS 51 NITRATION OF ANILINE AFTER ACETYLATION
2757	100016	P-NITROANILINE 0 UNSPECIFIED PROCESS 51 AMMONOLYSIS OF P-CHLORONITROBENZENE
2760	91236	0-NITROANISOLE 0 UNSPECIFIED PROCESS 51 METHYLATION OF 0-NITROPHENOL
2762	100174	P-NITROANISOLE 0 UNSPECIFIED PROCESS 51 METHYLATION OF P-NITROPHENOL
2770	98953	P NITROBENZENE 51 NITRATION OF BENZENE
2780	0	NITROBENZOIC ACID (H ₂ O,P) 0 UNSPECIFIED PROCESS 51 OXIDATION OF NITROTOLUENE
2790	79243	NITROETHANE 0 UNSPECIFIED PROCESS 51 NITRIC ACID + PROPANE
2791	75525	NITROMETHANE 0 UNSPECIFIED PROCESS

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2792	86755	P 2-NITROPHENOL 51 NITRIC ACID + PROPANE 0 UNSPECIFIED PROCESS 51 NITRATION OF PHENOL
2793	824782	* P-NITROPHENOL AND SODIUM SALT 0 UNSPECIFIED PROCESS 51 P-NITROPHENOL + SODIUM HYDROXIDE
2794	100027	P 4-NITROPHENOL 51 NITRATION OF PHENOL 52 HYDROLYSIS OF P-NITROCHLOR BENZENE 0 UNKNOWN
2795	25322014	P NITROPROPANE 0 UNSPECIFIED PROCESS 51 NITRATION OF PROPANE
2800	1321126	NITROTOLUENE 51 NITRATION OF TOLUENE
2805	86306	P N-NITROSODIPHENYLAMINE 0 UNSPECIFIED PROCESS 51 UNKNOWN
2806	62759	P N-NITROSODIMETHYLAMINE 51 UNKNOWN
2808	621647	P N-NITROSODIPROPYLAMINE 51 UNKNOWN
2810	27215958	NONENE 51 POLYMERIZATION OF PROPYLENE
2820	25154523	NONYLPHENOL 51 ALKYLATION OF PHENOL

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2825	0	* NYLON 0 UNSPECIFIED PROCESS
2827	119073	P* OCTYL DECYL PHTHALATE 51 ESTERIFICATION
2830	27193286	OCTYLPHENOL 0 UNSPECIFIED PROCESS 51 ACRYLATION OF PHENOL WITH ISOBUTYLENE DIMER
2831	0	* OXO CHEMICALS (MISC.) 51 OXO PROCESS
2832	1336363	* POLYCHLORINATED BIPHENYLS (MISC.) 51 CHLORINATION OF TRIPHENYL
2833	53469219	P* PCB-1242
2834	0	P* PCB-1016 51 CHLORINATION OF BIPHENYL
2835	12672296	P* PCB-1248
2836	11104282	P* PCB-1221 51 CHLORINATION OF BIPHENYL
2837	11097691	P* PCB-1254
2838	11141165	P* PCB-1232
2839	11096825	P* PCB-1260
2840	123637	PARALDEHYDE 0 UNSPECIFIED PROCESS 51 POLYMERIZATION OF ACETALDEHYDE

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOS NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2841	608935	P* PENTACHLOROBENZENE 51 CHLORINATION OF TETRACHLOROBENZENE 52 SMALL QUANTITIES IN HEATING TRICHLOROETHYLENE
2842	76017	P* 1,1,1,2,2-PENTACHLOROETHANE 51 CHLORINATION OF TRICHLOROETHYLENE
2843	87865	P* PENTACHLOROPHENOL 51 CHLORINATION OF PHENOL OR CHLOROPHENOLS
2850	115775	PENTAERYTHRITOL 51 CONDENSATION OF FORMALDEHYDE & ACETALDEHYDE
2851	109660	N-PENTANE 51 PETROLEUM DISTILLATION
2855	109671	1-PENTENE 0 UNSPECIFIED PROCESS 51 FROM NATURAL GASOLINE
2860	127184	P PERCHLOROETHYLENE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF ETHYLENE DICHLORIDE 52 CHLORINATION OF C12H14C3 53 CHLORINATION OF PROPYLENE + PROPYLENE DICHLORIDE 54 CHLORINATION OF STILL BOTTOMS AND RESIDUES 55 FROM ACETYLENE 56 FROM TRICHLOROETHYLENE 57 FROM VARIOUS FEEDSTOCKS
2882	594423	PERCHLOROMETHYL MERCAPTAN 0 UNSPECIFIED PROCESS 51 CHLORINATION OF CARBON DISULFIDE
2886	65018	P* PHENANTHRENE 51 COMBUSTION PRODUCT FROM COAL TAR

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2890	94702	O-PHENETIDINE 51 ETHYLATION + REDUCTION OF O-NITROPHENOL
2900	156434	P-PHENETIDINE 0 UNSPECIFIED PROCESS 51 ETHYLATION + REDUCTION OF P-NITROPHENOL
2905	0	* PHENOLIC RESINS 51 POLYMERIZATION OF PHENOL & FORMALDEHYDE
2910	108952	P PHENOL 51 CUMENE PEROXIDATION 52 COAL TAR AND PETROLEUM 53 TOLUENE OXIDATION 54 COAL TAR 55 PETROLEUM 56 BENZENE SULFONATION
2920	1322861	PHENOLSULFONIC ACIDS 0 UNSPECIFIED PROCESS 51 DIRECT SULFONATION OF PHENOL
2935	0	* PHENOXY RESINS 51 COPOLYMER OF BISPHENOL A & EPICHLOROHYDRIN
2930	91407	PHENYLANTHRANILIC ACID 0 UNSPECIFIED PROCESS 51 OXIDATION OF PHTHALIMIDE , THEN PHENOL
2940	0	PHENYLENEDIAMINE 0 UNSPECIFIED PROCESS 51 REDUCTION OF DINITROBENZENE
2945	193395	* 2,3-D-PHENYLENEPYRENE 51 COMBUSTION PRODUCT

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2950	75445	PHOSGENE 51 CARBON MONOXIDE & CHLORINE
2951	0	* C6-C10 PHTHALATE 51 ESTERIFICATION
2955	0	* C10-C12 PHTHALATE 51 ESTERIFICATION
2960	85449	PHTHALIC ANHYDRIDE 51 FROM O-XYLENE 52 FROM COAL-TAR NAPHTHALENE 53 FROM PETROLEUM NAPHTHALENE 54 FROM DESULFURIZED NAPHTHALENE
2970	85416	PHTHALIMIDE 51 AMMONIA & PHTHALIC ANHYDRIDE
2973	106996	B-PICOLINE 0 UNSPECIFIED PROCESS 51 ACETALDEHYDE + AMMONIA 52 RECOVERY FROM CORE-OVEN GAS
2976	110850	PIPERAZINE 0 UNSPECIFIED PROCESS 51 ETHANOLAMINES + AMMONIA 52 FROM ETHYLENEDIAMINES OR OTHER HIGHER AMINES
2980	0	* PHTHALIC ACID ESTERS (PLASTICIZERS) 51 ESTERIFICATION
2990	30846298	* POLYACETAL RESINS 51 ADDITION OF ALDEHYDE MOLECULES THROUGH C=O GROUP
2992	0	* POLY-ALPHA-METHYL STYRENE 51 IONIC POLYMERIZATION OF A-METHYL STYRENE

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
2994	0	• POLYARYL ETHER 51 OXIDATIVE COUPLING OF PHENOLIC MONOMERS
2996	0	• POLYAMIDES 51 CYCLOADDITION OF MONOBASIC FATTY ACIDS
2998	26985659	• POLYBENZIMIDAZOLES 51 3,3'-DIAMINOBENZIDINE + DIPHENYLISOPHTHALATE
3000	0	POLYBUTENES 0 UNSPECIFIED PROCESS 51 POLYMERIZATION OF ISOBUTYLENES/BUTYLENES STREAM
3002	0	• POLYBENZOTHIAZOLES 51 UNKNOWN
3004	0	• POLYCARBONATES 51 PHOSGENATION OF BISPHENOL A
3006	0	• POLYESTER RESIN/FIBER 0 UNSPECIFIED PROCESS
3008	9002884	• POLYETHYLENE AND COPOLYMERS 0 UNSPECIFIED PROCESS 51 SOLUTION POLYMERIZATION 52 SLURRY POLYMERIZATION 53 HIGH PRESSURE, GAS PHASE
3010	25322683	POLYETHYLENE GLYCOL 51 ETHYLENE GLYCOL + ETHYLENE OXIDE
3012	0	• POLYIMIDES 0 UNSPECIFIED PROCESS 51 PHDA + AROMATIC DIAMINES 52 BTDA + AROMATIC DIAMINES 53 TMA + AROMATIC DIAMINES 54 TMA + DIACETOXY DERIVATIVE OF AN AROMATIC DIOL

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3014	29068262	* 4-METHYL-1-POLYMETHYL PENTENE 51 UNKNOWN
3016	9016755	* POLYPHENYLENE SULFIDE 0 UNSPECIFIED PROCESS 51 SODIUM SULFIDE + N-METHYL PYRROLIDONE
3050	9003070	* POLYPROPYLENE AND COPOLYMERS RESIN/FIBER 0 UNSPECIFIED PROCESS 51 SLURRY POLYMERIZATION 52 SOLUTION POLYMERIZATION
3025	25322694	POLYPROPYLENE GLYCOL 51 PROPYLENE GLYCOL + PROPYLENE OXIDE
3030	9003536	* POLYSTYRENE AND COPOLYMERS 0 UNSPECIFIED PROCESS 51 SOLUTION POLYMERIZATION 52 SUSPENSION POLYMERIZATION 53 MODIFIED MASS POLYMERIZATION 54 EMULSION POLYMERIZATION
3013	0	* POLYSULFONE RESINS 0 UNSPECIFIED PROCESS 51 CONDENSATION OF BISPHENOL A + DICHLOROPHENYL SULFONE
3036	27416060	* POLYURETHANE RESINS 51 FOAM 52 RESINS 53 SURFACE COATING RESINS 54 ELASTOMERS 55 CONDENSATION OF POLYHYDRIC ALCOHOLS + DIISOCYANATES
3040	0	* POLYVINYL ACETATE AND COPOLYMERS 0 UNSPECIFIED PROCESS 51 EMULSION POLYMERIZATION 52 SUSPENSION POLYMERIZATION

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3042	9002695	* POLYVINYL ALCOHOL 51 HYDROLYSIS OF POLYVINYL ACETATE
3044	0	* POLYVINYL BUTYRAL 51 CONDENSATION OF BUTYRALDEHYDE WITH POLYVINYL ACETATE
3046	0	* POLYVINYL CARBAZOLE 51 ACETYLENE + CARBAZOLE
3048	0	* POLYVINYL CHLORIDE AND COPOLYMERS 0 UNSPECIFIED PROCESS 51 SUSPENSION POLYMERIZATION 52 EMULSION POLYMERIZATION 53 BULK POLYMERIZATION 54 SOLUTION POLYMERIZATION
3050	0	* POLYVINYL ETHERS 51 POLYMERIZATION OF VINYL ETHERS
3055	9003398	* POLYVINYL PYRROLIDONE 0 UNSPECIFIED PROCESS 51 SOLUTION POLYMERIZATION
3060	9002851	* POLYVINYLIDENE CHLORIDES 0 UNSPECIFIED PROCESS 51 SUSPENSION POLYMERIZATION 52 EMULSION POLYMERIZATION
3063	123366	PROPIONALDEHYDE 51 OXO PROCESS
3066	79094	PROPIONIC ACID 51 BY-PRODUCT OF N-BUTANE OXIDATION FOR ACETIC ACID 52 OXO PROCESS 53 NITROPARAFFIN BY-PRODUCT

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CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3069	109604	* PROPYL ACETATE 0 UNSPECIFIED PROCESS 51 ESTERIFICATION
3070	71238	N-PROPYL ALCOHOL 0 UNSPECIFIED PROCESS 51 OXO PROCESS 52 BYPRODUCT OF N-BUTANE OXIDATION FOR ACETIC ACID
3075	107108	PROPYLAMINE 0 UNSPECIFIED PROCESS 51 AMMONIA + PROPANOL 52 AMMONIA + PROPYL CHLORIDE
3080	540545	PROPYL CHLORIDE 0 UNSPECIFIED PROCESS 51 PROPYL ALCOHOL + HCL
3090	115071	PROPYLENE 0 UNSPECIFIED PROCESS 51 FROM ETHYLENE MANUFACTURING 52 FROM REFINING OPERATIONS
3100	78897	PROPYLENE CHLOROHYDRIN 0 UNSPECIFIED PROCESS 51 HYDROCHLORINATION OF PROPYLENE
3110	78875	PROPYLENE DICHLORIDE 0 UNSPECIFIED PROCESS 51 BYPRODUCT OF PROPYLENE OXIDE BY CHLOROHYDRINATION
3111	57556	PROPYLENE GLYCOL 51 HYDRATION OF PROPYLENE OXIDE
3120	75569	PROPYLENE OXIDE 51 CHLOROHYDRIN 52 PEROXIDATION (ISOBUTANE)

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

CCPDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3125	129000	P. PYRENE 51 COAL TAR COMBUSTION PRODUCT
3130	110861	PYRIDINE (NATURAL AND SYNTHETIC) 51 RECOVERY FROM COKE OVEN GAS 52 ACETALDEHYDE + AMMONIA
3140	106514	QUINONE 51 OXIDATION OF ANILINE
3145	61788770	* RAYON 51 ALKALI CELLULOSE + CARBON DISULFIDE
3150	108463	RESORCINOL 51 SULFONATION PROCESS
3160	27138574	RESORCYLIC ACID 0 UNSPECIFIED PROCESS 51 UNKNOWN
3170	69727	SALICYLIC ACID 51 SODIUM PHENATE + CARBON DIOXIDE
3175	0	* SILICONES 0 UNSPECIFIED PROCESS 51 FLUORO-HYDROLYSIS OF DIMETHYLDICHLOROSILANE 52 ELASTOMERS-RING OPENING OF CYCLIC SILOXANES 53 RESINS-HYDROLYSIS OF ORGANOSILOXANES
3180	127093	SODIUM ACETATE 0 UNSPECIFIED PROCESS 51 NEUTRALIZATION
3181	532321	SODIUM BENZOATE 0 UNSPECIFIED PROCESS 51 NEUTRALIZATION

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3190	9004324	SODIUM CARBOXYMETHYL CELLULOSE 51 ALKALI CELLULOSE + SODIUM MONOCHLOROACETATE
3191	3926623	SODIUM CHLOROACETATE 0 UNSPECIFIED PROCESS 51 CHLORACETIC ACID + SODIUM CARBONATE
3200	141537	SODIUM FORMATE 0 UNSPECIFIED PROCESS 51 CARBON MONOXIDE AND SODIUM HYDROXIDE
3210	139026	SODIUM PHENATE 51 COKE OVEN GAS
3220	110441	SORBITIC ACID 0 UNSPECIFIED PROCESS 51 CROTONALDEHYDE + KETENE 52 OXIDATION OF 2% HEXADIENAL
3230	100425	STYRENE 51 DEHYDROGENATION OF ETHYLBENZENE
3240	110156	SUCCINIC ACID 0 UNSPECIFIED PROCESS 51 HYDROGENATION OF MALEIC ANHYDRIDE
3250	110612	SUCCINONITRILE 0 UNSPECIFIED PROCESS 51 ACRYLONITRILE + HCN
3251	121573	SULFANILIC ACID 0 UNSPECIFIED PROCESS 51 ANILINE + SULFURIC ACID
3260	126330	SULFOLANE 51 SULFUR DIOXIDE + BUTADIENE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3270	1401554	TANNIC ACID 51 EXTRACTION FROM NATURAL SOURCES
3280	100210	TEREPHTHALIC ACID 51 OXIDATION OF P-XYLENE
3283	25167208	* TETRABROMOETHANE 0 UNSPECIFIED PROCESS 51 ACETYLENE + BROMINE
3285	0	P* 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN 51 CONTAMINANT IN PESTICIDES
3286	634662	P* 1,2,3,4-TETRACHLOROBENZENE 51 CHLORINATION OF 1,2,3-TRICHLOROBENZENE
3287	634902	P* 1,2,3,5-TETRACHLOROBENZENE 51 CHLORINATION OF 1,3,5-TRICHLOROBENZENE 52 SANDMEYER FROM 2,3,5-TRICHLOROANILINE
3289	95943	P* 1,2,4,5-TETRACHLOROBENZENE 0 UNKNOWN 51 CHLORINATION OF BENZENE 52 CHLORINATION OF 1,2,4-TRICHLOROBENZENE 53 SANDMEYER FROM 1,2,4-TRICHLOROBENZENE
3290	79345	1,1,2,2-TETRACHLOROETHANE 51 CHLORINATION OF ACETYLENE
3291	0	P* 1,1,1,2-TETRACHLOROETHANE 51 CHLORINATION OF ACETYLENE
3300	117088	TETRACHLOROPHTHALIC ANHYDRIDE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF PHTHALIC ANHYDRIDE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPDB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3305	150776	* TETRAETHYLENE DIAMINE 51 UNKNOWN
3310	78002	TETRAETHYL LEAD 51 ALKYLATION OF LEAD AMALGAM 52 ELECTROLYSIS OF GRIGNARD REAGENT
3320	119642	TETRAHYDRONAPHTHALENE 0 UNSPECIFIED PROCESS 51 HYDROGENATION OF NAPHTHALENE
3330	85438	TETRAHYDROPHthalic ANHYDRIDE 0 UNSPECIFIED PROCESS 51 BUTADIENE + MALEIC ANHYDRIDE
3335	75741	* TETRAMETHYL LEAD 51 LEAD-SODIUM ALLOY & METHYL CHLORIDE 52 ELECTROLYSIS OF METHYL GRIGNARD REAGENT 0 UNKNOWN
3340	110601	TETRAMETHYLENEDIAMINE 51 UNKNOWN
3341	110189	TETRAMETHYLENEDIAMINE 0 UNSPECIFIED PROCESS 51 DICHLOROETHANE + DIMETHYLAMINE
3349	108863	P TOLUENE 51 FROM PETROLEUM--INCLUDES PROCESSES 53-56. 52 FROM COAL 53 BY-PRODUCT OF ETHYLENE MANUFACTURE 54 REFINERY BY-PRODUCT 55 FROM PETROLEUM AND BY-PRODUCT OF ETHYLENE MFG. 56 FROM PETROLEUM AND BY-PRODUCT OF STYRENE MFG.
3350	95607	TOLUENE-2,4-DIAMINE 51 REDUCTION OF 2,4-DINITROTOLUENE

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3354	584849	2-N-TOLUENE DIISOCYANATE 51 PHOSGENATION OF TOLUENE-2,N-DIAMINE
3355	26471625	TOLUENE DIISOCYANATES (MIXTURE) 51 PHOSGENATION OF TOLUENE DIAMINE
3360	1333079	TOLUENESULFONAMIDE 0 UNSPECIFIED PROCESS 51 TOLUENE SULFONYL CHLORIDE + AMMONIA
3370	0	TOLUENESULFONIC ACIDS 51 SULFONATION OF TOLUENE
3380	98599	TOLUENESULFONYL CHLORIDE 51 SULFONATION OF TOLUENE, THEN PLS 52 TOLUENE + CHLOROSULFONIC ACID
3381	26915128	TOLUIDINES 0 UNSPECIFIED PROCESS 51 REDUCTION OF NITROTOLUENES
3385	0	P-TOXAPHENE 51 CHLORINATION OF A-PINENE
3390	87616	1,2,3-TRICHLOROBENZENE 51 CHLORINATION OF O-DICHLOROBENZENE
3391	100703	* 1,3,5-TRICHLOROBENZENE 51 CHLORINATION OF M-DICHLOROBENZENE
3393	120821	* 1,2,4-TRICHLOROBENZENE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF O-DICHLOROBENZENE
3395	71556	P 1,1,1-TRICHLOROETHANE 51 CHLORINATION OF VINYL CHLORIDE 52 HYDROCHLORINATION OF VINYLIDENE CHLORIDE

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3400	79005	P 1,1,2-TRICHLOROETHANE 0 UNSPECIFIED PROCESS 51 OXYCHLORINATION OF ETHYLENE DICHLORIDE 52 ACETYLENE CHLORINATION, DEHYDROCHLORINATION OF PRODUCT 53 CHLORINATION + DEHYDROCHLORINATION OF EDC
3410	79016	P TRICHLOROETHYLENE 0 UNSPECIFIED PROCESS 51 FROM ACETYLENE 52 FROM ETHYLENE DICHLORIDE
3411	75694	P TRICHLOROFLUOROETHANE 51 FLUORINATION OF CARBON TETRACHLORIDE
3415	88062	P 2,4,6-TRICHLOROPHENOL 0 UNSPECIFIED PROCESS 51 UNKNOWN
3420	96184	1,2,3-TRICHLOROPROPANE 0 UNSPECIFIED PROCESS 51 CHLORINATION OF PROPYLENE
3430	76131	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE 0 UNSPECIFIED PROCESS 51 PERCHLOROETHYLENE, CL2, HF
3450	121448	TRIETHYLAMINE 51 ETHANOL + AMMONIA
3460	112276	TRIETHYLENE GLYCOL 51 HYDRATION OF ETHYLENE OXIDE
3470	112492	TRIETHYLENE GLYCOL DIMETHYL ETHER 0 UNSPECIFIED PROCESS 51 SODIUM SALT OF TRIETHYLENE GLYCOL MONOETHER + CH3CL

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPS NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3475	112243	* TRIETHYLENE TETRAAMINE 51 UNKNOWN
3480	7756947	TRIISOBUTYLENE 51 POLYMERIZATION OF ACID EXTRACT OF ISOBUTYLENES
3490	75503	TRIMETHYLAMINE 51 AMMONIA + METHANOL
3500	57136	UREA 0 UNSPECIFIED PROCESS 51 AMMONIA + CARBON DIOXIDE, ONCE THROUGH 52 AMMONIA + CARBON DIOXIDE; PARTIAL RECYCLE 53 AMMONIA + CARBON DIOXIDE; TOTAL RECYCLE 54 BOTH 51 & 53
3501	9011056	* UREA FORMALDEHYDE RESIN 51 CONDENSATION OF UREA + FORMALDEHYDE
3510	108054	VINYL ACETATE 51 ACETYLENE PROCESS 52 VAPOR-PHASE ETHYLENE PROCESS
3520	75014	P VINYL CHLORIDE 51 BALANCED ETHYLENE DICHLORIDE PROCESS 52 DIRECT CHLORINATION OF ETHYLENE 54 ETHYLENE OXYCHLORINATION 53 FROM ACETYLENE
3530	75354	VINYLDIENE CHLORIDE 0 UNSPECIFIED PROCESS 51 FROM 1,1,1-TRICHLOROETHANE 52 FROM 1,1,2-TRICHLOROETHANE
3540	25013154	VINYL TOLUENE 51 ALKYLATION OF TOLUENE; THEN DEHYDROGENATION OF M + P

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
3541	1330207	XYLENES (MIXED) 0 UNSPECIFIED PROCESS 51 FROM REFORMATE 52 FROM PYROLYSIS GASOLINE 53 BYPRODUCT OF COKING 54 DISPROPORTIONATION + HYDRODEALKYLATION OF TOLUENE 55 BOTH 51 & 53 56 BOTH 51 & 52 57 BOTH 51 & 54
3550	106363	* M-XYLENE 51 FRACTIONAL CRYSTALLIZATION FROM MIXTURE 52 FORMATION OF CLATHRATES 53 SULFONATION 54 FORMATION OF HF-BF3 COMPLEX
3560	95476	O-XYLENE 0 UNSPECIFIED PROCESS 51 FRACTIONAL DISTILLATION
3570	106423	P-XYLENE 0 UNSPECIFIED PROCESS 51 FRACTIONAL CRYSTALLIZATION 52 ADSORPTION
3580	1300716	XYLENOL (MIXTURE) 0 UNSPECIFIED PROCESS 51 METHYLATION OF PHENOL 52 FRACTIONATION OF SODIUM CARBOLATE
3587	25321419	* XYLENE SULFONIC ACID 51 UNKNOWN
3590	1300736	XYLIDINE 0 UNSPECIFIED PROCESS 51 REDUCTION OF NITROXYLENES

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICALS AND PROCESSES

OCPOB NUMBER	CAS NUMBER	CHEMICAL/PROCESS
9330	75003	P. CHLOROETHANE
		9 UNKNOWN
		51 HYDROCHLORINATION OF ETHYLENE

APPENDIX B

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

CCPDB NUMBER	COMPANY NAME	CITY	STATE
10	A & E PLASTIK PAK CO., INC.	CITY OF INDIANAPOLIS	IN
20	ABBOTT LABORATORIES	NORTH CHICAGO	IL
30	ABBOTT LABORATORIES	WICHITA	KS
38	ABTEC CHEM. CO.	LOUISVILLE	KY
40	ARBYNCO, INC.	CARLSTADT	NJ
50	ACHE-HARDESTY CO., INC.	JENKINTOWN	PA
60	ADCO CHEM. CO., INC.	NEWARK	NJ
70	ADD PROCESSING CORP.	ABBEVILLE	LA
74	ADELL PLASTICS, INC.	BALTIMORE	MD
80	ADHESIVE PRODUCTS CORP.	BROOKLYN	NY
85	ADM FOOD OILS CO.	DECATUR	IL
90	A. E. STALEY MFG. CO.	LEWISTON	ME
100	A. E. STALEY MFG. CO.	KEARNY	NJ
110	AGWAY INC.	OLEAN	NY
120	AIR PRODUCTS AND CHEMS., INC.	PENSACOLA	FL
130	AIR PRODUCTS AND CHEMS., INC.	CALVERT CITY	KY
140	AIR PRODUCTS AND CHEMS., INC.	HOMETOWN	PA
150	AIR PRODUCTS AND CHEMS., INC.	MIDDLESEX	NJ
160	AIR PRODUCTS AND CHEMS., INC.	CITY OF INDIANAPOLIS	IN
170	AIR PRODUCTS AND CHEMS., INC.	ELKTON	MD
180	AIR PRODUCTS AND CHEMS., INC.	CLEVELAND	OH
190	AIR PRODUCTS AND CHEMS., INC.	LOUISVILLE	KY
200	AIRCO, INC.	HOUSTON	TX
205	AIRCO, INC.	ENKA	NC
210	AKZONA INC.	BURT	NY
220	AKZONA INC.	CENTRAL	SC
230	AKZONA INC.	LOWLAND	TN
240	AKZONA INC.	TARRANT	AL
245	ALABAMA BY-PRODUCTS CORP.	SWANSEA	PA
250	ALAN WOOD STEEL CO.	SWANSEA	PA
255	ALBA MANUFACTURING CO.	AURORA	IL
260	ALBERTA FILAMENTS, INC.	HOBOKEN	NJ
265	ALBERTA GAS CHEMS., INC.	DULUTH	GA
270	ALCO STANDARD CORP.	PHILADELPHIA	PA
280	ALDRICH CHEM. CO., INC.	MILWAUKEE	WI
285	ALDRICH CHEM. CO., INC.	LA PORTE	TX
290	ALDRICH CHEM. CO., INC.	MONROE	NC
295	ALLIED CHEMICAL CORP.	WEST CONSHOHOCKEN	PA
300	ALLIED CHEMICAL CORP.		
310	ALLIED CHEMICAL CORP.		

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCFOR NUMBER	COMPANY NAME	CITY	STATE
655	AMERICAN CYANAMID CO.	MILTON	FL
660	I R C FIBERS CO.	PAINESVILLE	OH
670	AMERICAN CYANAMID CO.	WILLOW ISLAND	WV
675	AMERICAN HOECHST CORP.	BATON ROUGE	LA
680	AMERICAN HOECHST CORP.	DELAWARE CITY	DE
690	AMERICAN HOECHST CORP.	LEONISTER	MA
700	AMERICAN HOECHST CORP.	MOUNT HOLLY	NC
710	AMERICAN HOECHST CORP.	MANCHESTER	NH
720	AMERICAN HOECHST CORP.	COVENTRY	RI
730	AMERICAN HOECHST CORP.	SPARTANBURG	SC
740	AMERICAN HOECHST CORP.	CHESAPEAKE	VA
750	AMERICAN HOECHST CORP.	PERU	IL
765	COSDEN OIL & CHEM. CO.	CALUMET CITY	IL
770	AMERICAN PETROFINA CO. OF TEXAS	BEAUMONT	TX
780	COSDEN OIL & CHEM. CO.	BIG SPRING	TX
790	COSDEN OIL & CHEM. CO.	GROVES	TX
800	AMERICAN PETROFINA CO. OF TEXAS	PORT ARTHUR	TX
810	AMERICAN POLYMERS, INC.	PATERSON	NJ
815	PRENTISS DRUG & CHEM. CO.	NEWARK	NJ
820	AMES LABS., INC., THE	MILFORD	CT
830	AMTEK, INC.	ODENTON	MD
840	AMVAC CHEM. CORP.	LOS ANGELES	CA
850	ANDREW JERGENS CO., THE	CINCINNATI	OH
860	ANSUL CO., THE	MARINETTE	WI
870	APEX CHEM. CO., INC.	ELIZABETHPORT	NJ
880	APPLIED PLASTICS CO. INC.	EL SEBUNDO	CA
910	ARCO/POLYMERS, INC.	BEAVER VALLEY	PA
920	ATLANTIC RICHFIELD CO.	CHAMMELVIEW	TX
930	ATLANTIC RICHFIELD CO.	HOUSTON	TX
940	ARCO/POLYMERS, INC.	PORT ARTHUR	TX
950	ATLANTIC RICHFIELD CO.	CARSON	CA
970	ARCO/POLYMERS, INC.	HOUSTON	TX
975	ARCO/POLYMERS, INC.	LA PORTE	TX
980	ARMCO STEEL CORP.	MIDDLETOWN	OH
985	ARMCO STEEL CORP.	HAMILTON	OH
984	ARMCO STEEL CORP.	HOUSTON	TX
990	ARMOUR-DIAL, INC.	MONTGOMERY	IL

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCDBR NUMBER	COMPANY NAME	CITY	STATE
320	ALLIED CHEMICAL CORP.	EL SEGUNDO	CA
330	ALLIED CHEMICAL CORP.	DANVILLE	IL
340	ALLIED CHEMICAL CORP.	BATON ROUGE	LA
350	ALLIED CHEMICAL CORP.	GEISMAR	LA
360	ALLIED CHEMICAL CORP.	DETROIT	MI
370	ALLIED CHEMICAL CORP.	OMAHA	NE
380	ALLIED CHEMICAL CORP.	ELIZABETH	NJ
390	ALLIED CHEMICAL CORP.	BUFFALO	NY
400	ALLIED CHEMICAL CORP.	SOUTH POINT	OH
410	ALLIED CHEMICAL CORP.	FRANKFORD	PA
420	ALLIED CHEMICAL CORP.	HELENA	AR
421	ALLIED CHEMICAL CORP.	ASHLAND	KY
422	ALLIED CHEMICAL CORP.	IRONTON	OH
423	ALLIED CHEMICAL CORP.	MARCUS HOOK	PA
430	ALLIED CHEMICAL CORP.	ORANGE	TX
440	ALLIED CHEMICAL CORP.	HOPEWELL	VA
450	ALLIED CHEMICAL CORP.	MOUNDSVILLE	WV
460	ALLIED CHEMICAL CORP.	LOS ANGELES	CA
470	ALLIED CHEMICAL CORP.	TOLEDO	OH
480	ALLIED CHEMICAL CORP.	IRMO	SC
490	ALLIED CHEMICAL CORP.	CHESTERFIELD	VA
500	ALLIED CHEMICAL CORP.	NEW HAVEN	CT
510	ALLIED CHEMICAL CORP.	COLLIERVILLE	TN
520	ALLIED PRODUCTS CORP.	KATHLEEN	FL
521	ALPHA CHEM. CORP.	PERRIS	CA
523	ALPHA CHEM. CORP.	ST. CROIX	VI
530	ALPHA CHEM. CORP.	LOS ANGELES	CA
540	ALPHA CHEM. CORP.	LOCK HAVEN	PA
550	ALPHA CHEM. CORP.	EVANDALE	OH
560	ALPHA CHEM. CORP.	WOODBRIDGE	NJ
570	ALPHA CHEM. CORP.	WALLINGFORD	CT
580	ALPHA CHEM. CORP.	NEW ORLEANS	LA
590	ALPHA CHEM. CORP.	CHARLOTTE	NC
600	ALPHA CHEM. CORP.	KALAMAZOO	MI
610	ALPHA CHEM. CORP.	BOUND BROOK	NJ
620	ALPHA CHEM. CORP.	LINDEN	NJ
630	ALPHA CHEM. CORP.	MARIETTA	OH
640	ALPHA CHEM. CORP.		
650	ALPHA CHEM. CORP.		

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
995	ARNCO	SOUTH GATE	CA
1000	ASHLAND OIL, INC.	MAPLETON	IL
1010	ASHLAND OIL, INC.	HAMMOND	IN
1020	ASHLAND OIL, INC.	ASHLAND	KY
1030	ASHLAND OIL, INC.	LOUISVILLE	KY
1040	ASHLAND OIL, INC.	GREAT MEADOWS	NJ
1050	ASHLAND OIL, INC.	NORTH TONAWANDA	NY
1060	ASHLAND OIL, INC.	JAMESVILLE	WI
1070	ASHLAND OIL, INC.	VALLEY PARK	MO
1080	ASHLAND OIL, INC.	LOS ANGELES	CA
1090	ASHLAND OIL, INC.	PENSACOLA	FL
1100	ASHLAND OIL, INC.	CALUMET CITY	IL
1110	ASHLAND OIL, INC.	FORDS	IL
1120	ASHLAND OIL, INC.	NEWARK	NJ
1130	ASHLAND OIL, INC.	CLEVELAND	NJ
1140	ASHLAND OIL, INC.	NEAL	OH
1150	PMW CHEM. CORP.	PLAINVIEW	OH
1170	AVTEX FIBERS INC.	LEWISTOWN	NY
1180	AVTEX FIBERS INC.	HEADVILLE	PA
1190	AVTEX FIBERS INC.	FRONT ROYAL	PA
1200	AVTEX FIBERS INC.	NITRO	VA
1205	AXCO INDUST. INC.	ATLANTA	VA
1207	AXCO INDUST. INC.	NEWARK	WV
1209	AXCO INDUST. INC.	SATREVILLE	WV
1210	AZS CORP.	EATON PARK	NJ
1230	BALL CHEM. CO.	GLENSHAW	NJ
1240	BASF WYANDOTTE CORP.	GEISHAW	FL
1250	BASF WYANDOTTE CORP.	WYANDOTTE	PA
1260	BASF WYANDOTTE CORP.	JAMESBURG	LA
1270	BASF WYANDOTTE CORP.	NEARBY	MI
1280	BASF WYANDOTTE CORP.	WASHINGTON	NJ
1285	BEATRICE FOODS CO.	BALTIMORE	NJ
1295	BARTON AND CHEMS., INC.	STEUBENVILLE	MD
1297	BARTON CHEM. CORP.	CHICAGO	OH
1299	BEATRICE FOODS CO.	PEABODY	IL
1300	BEATRICE FOODS CO.	WILMINGTON	MA
1304	BEAUNIT CORP.	ELIZABETHTON	MA
			TN

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
1310	BECKMAN INSTRUMENTS, INC.	PALO ALTO	CA
1330	BEIDING CHEM. INDUST.	GROSVENORDALE	CT
1334	CUSTOM RESINS, INC.	HENDERSON	KY
1340	BENDIX CORP., THE	GREEN ISLAND	NY
1350	BENJAMIN MOORE & CO.	LOS ANGELES	CA
1355	BENJAMIN MOORE & CO.	CLEVELAND	OH
1360	BENJAMIN MOORE & CO.	MELROSE PARK	IL
1370	BENJAMIN MOORE & CO.	ST. LOUIS	MO
1380	BENJAMIN MOORE & CO.	NEWARK	NJ
1390	BENNETT'S	SALT LAKE CITY	UT
1400	BENKLEY & CO.	SPIRIT LAKE	IA
1405	BETHLEHEM STEEL CORP.	BURNS HARBOR	IN
1410	BETHLEHEM STEEL CORP.	SPARROWS POINT	MD
1415	BETHLEHEM STEEL CORP.	JOHNSTOWN	PA
1420	BETHLEHEM STEEL CORP.	LACKAWANNA	NY
1430	BETHLEHEM STEEL CORP.	BETHLEHEM	PA
1440	BF GOODRICH CO., THE	HENRY	IL
1450	BF GOODRICH CO., THE	CALVERT CITY	KY
1460	BF GOODRICH CO., THE	PORT NECHES	TX
1470	BF GOODRICH CO., THE	LONG BEACH	CA
1480	BF GOODRICH CO., THE	LOUISVILLE	KY
1490	BF GOODRICH CO., THE	PEDRICKTOWN	NJ
1500	BF GOODRICH CO., THE	AKRON	OH
1510	BF GOODRICH CO., THE	AVON LAKE	OH
1520	BIO-RAD LABORATORIES	RICHMOND	CA
1525	BISON NITROGEN PRODUCTS	WOODWARD	OK
1527	BISONITE CO., INC.	BUFFALO	NY
1530	BLUE SPRUCE CO.	BOUND BROOK	NJ
1535	BOFORS LAKENAY, INC.	MUSKOGON	MI
1560	BORDEN INC.	DEMOPOLIS	AL
1570	BORDEN INC.	COMPTON	CA
1580	BORDEN INC.	FREMONT	CA
1590	BORDEN INC.	ILLIOPOLIS	IL
1600	BORDEN INC.	LOUISVILLE	KY
1610	BORDEN INC.	GEISMAR	LA
1620	BORDEN INC.	LEOMINSTER	MA
1630	BORDEN INC.	MISSOULA	MT

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPPR NUMBER	COMPANY NAME	CITY	STATE
1640	BORDEN INC.	FAYETTEVILLE	NC
1650	BORDEN INC.	BAINBRIDGE	NY
1660	BORDEN INC.	LA GRANDE	OR
1670	BORDEN INC.	SPRINGFIELD	TX
1680	BORDEN INC.	DIBOLL	WA
1690	BORDEN INC.	KENT	WI
1700	BORDEN INC.	SHEBOYGAN	IL
1710	BORG-WARNER CHEMICALS U.S.A.	OTTAWA	WV
1720	BORG-WARNER CHEMICALS U.S.A.	MORGANTOWN	WV
1730	BORG-WARNER CHEMICALS U.S.A.	WASHINGTON	OR
1740	BORG-WARNER CHEMICALS U.S.A.	EUGENE	NH
1750	BORG-WARNER CHEMICALS U.S.A.	BERLIN	MO
1760	BORG-WARNER CHEMICALS U.S.A.	CADET	TN
1770	BORG-WARNER CHEMICALS U.S.A.	MEMPHIS	NY
1780	BORG-WARNER CHEMICALS U.S.A.	BUFFALO	LA
1790	BORG-WARNER CHEMICALS U.S.A.	LAKE CHARLES	CA
1800	BORG-WARNER CHEMICALS U.S.A.	VALLEJO	CA
1810	BORG-WARNER CHEMICALS U.S.A.	LONG BEACH	VA
1820	BORG-WARNER CHEMICALS U.S.A.	BRISTOL	OH
1830	BORG-WARNER CHEMICALS U.S.A.	XENIA	NY
1840	BORG-WARNER CHEMICALS U.S.A.	NIAGARA FALLS	CA
1850	BORG-WARNER CHEMICALS U.S.A.	LYNWOOD	GA
1860	BORG-WARNER CHEMICALS U.S.A.	FOREST PARK	IL
1870	BORG-WARNER CHEMICALS U.S.A.	CARPENTERSVILLE	PA
1880	BORG-WARNER CHEMICALS U.S.A.	PHILADELPHIA	PR
1890	BORG-WARNER CHEMICALS U.S.A.	PONCE	MA
1900	BORG-WARNER CHEMICALS U.S.A.	OXFORD	MA
1910	BORG-WARNER CHEMICALS U.S.A.	WORCESTER	MA
1920	BORG-WARNER CHEMICALS U.S.A.	OMENSBORO	MA
1930	BORG-WARNER CHEMICALS U.S.A.	CHARLOTTE	NC
1940	BORG-WARNER CHEMICALS U.S.A.	LINDEN	NJ
1950	BORG-WARNER CHEMICALS U.S.A.	NEWARK	NJ
1960	BORG-WARNER CHEMICALS U.S.A.	ROCK HILL	SC
1970	BORG-WARNER CHEMICALS U.S.A.	DEER PARK	TX
1980	BORG-WARNER CHEMICALS U.S.A.	BAY CITY	TX
	BORG-WARNER CHEMICALS U.S.A.	BISHOP	TX
	BORG-WARNER CHEMICALS U.S.A.	CLEAR LAKE	TX

ORGANIC CHEMICAL PRODUCERS DATA BASE
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OCFDB NUMBER	COMPANY NAME	CITY	STATE
1990	CELANESE CORP.	PANAMA	TX
2000	CELANESE CORP.	NARROWS	VA
2010	CELANESE COATINGS & SPEC'LTY CHEMS. CO.	LOS ANGELES	CA
2020	CELANESE COATINGS & SPEC'LTY CHEMS. CO.	NEWARK	CA
2030	CELANESE CORP.	BRIDGEVIEW	IL
2040	CELANESE COATINGS & SPEC'LTY CHEMS. CO.	LOUISVILLE	IL
2050	CELANESE COATINGS & SPEC'LTY CHEMS. CO.	CHARLOTTE	NC
2060	CERTAIN-TEED CORP.	LAKE CHARLES	LA
2070	CF INDUSTRIES, INC.	DONALDSONVILLE	LA
2080	CF INDUSTRIES, INC.	TUNIS	NC
2090	CF INDUSTRIES, INC.	FREMONT	NE
2100	CF INDUSTRIES, INC.	TYNER	TN
2110	CF&I STEEL CORP.	PUEBLO	CO
2125	NEVAMAR CORP.	ODENTON	MD
2140	CHARTER INTERNATIONAL OIL CO.	HOUSTON	TX
2150	PFIZER INC.	BROOKLYN	NY
2160	PFIZER INC.	GROTON	CT
2170	PFIZER INC.	TERRE HAUTE	IN
2180	PFIZER INC.	GREENSBORO	NC
2185	CHATTANOOGA COKE & CHEMS. CO., INC.	ALTON PARK	TN
2190	PETROCHEMICALS CO., INC.	LONG BEACH	CA
2200	CHATTEN DRUG & CHEM. CO.	CHATTANOOGA	TN
2210	PETROCHEMICALS CO. INC.	FORT WORTH	TX
2230	CHEMFAX, INC.	GULFPORT	MS
2240	CHEM. COATINGS & ENGINEERING CO., INC.	MEDIA	PA
2245	CHEMICAL EXCHANGE CO. INC.	BAYTOWN	TX
2247	CHEMICAL EXCHANGE CO. INC.	HOUSTON	TX
2250	CHEMICAL FORMULATORS, INC.	NITRO	WV
2270	CHEMICAL PRODUCTS CORP.	ELWOOD PARK	NJ
2280	CHEMICAL & POLLUTION SCIENCES, INC.	OLD BRIDGE	NJ
2290	CHEMOL, INC.	GREENSBORO	NC
2300	CHEMPLEX CO.	CLINTON	IA
2310	CHEM-FLEUR INC.	NEWARK	NJ
2320	CHEM. PROCESSORS, INC.	SEATTLE	WA
2350	CHICAGO SANITARY PRODUCTS CO.	CHICAGO	IL
2360	CIRA-GEIGY CORP.	MCINTOSH	AL
2365	REN PLASTICS	EAST LANSING	MI

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

CCPDR NUMBER	COMPANY NAME	CITY	STATE
2370	CIBA-GEIGY CORP.	ST. GABRIEL	LA
2380	CIBA-GEIGY CORP.	SUMMIT	NJ
2390	CIBA-GEIGY CORP.	TOMS RIVER	NJ
2400	CIBA-GEIGY CORP.	CRANSTON	RI
2410	CHAS. S. TANNER CO.	GREENVILLE	SC
2415	CITY CHEM. CORP.	JERSEY CITY	NJ
2420	CITIES SERVICE CO.	LAKE CHARLES	LA
2430	CITIES SERVICE CO.	COPPERHILL	TN
2435	CITIZENS GAS & COKE UTILITY	INDIANAPOLIS	IN
2440	C. J. OSBORN CHEMS., INC.	PENNSAUKEN	IN
2450	CLARENCE L. MEYERS & CO.	ANSONVILLE	NJ
2460	CLARK CHEM. CORP.	WOOD RIVER	NC
2470	CLARK CHEM. CORP.	BLUE ISLAND	IL
2480	CLORAY NJ CORP.	NEWARK	IL
2490	COASTAL STATES MARKETING, INC.	CORPUS CRISTI	NJ
2500	WYCON CHEM. CO.	CHEYENNE	TX
2510	COLGATE-PALMOLIVE CO.	BERKELEY	WY
2520	COLGATE-PALMOLIVE CO.	JEFFERSONVILLE	CA
2530	COLGATE-PALMOLIVE CO.	KANSAS CITY	IN
2540	COLGATE-PALMOLIVE CO.	JERSEY CITY	KS
2550	NORTH CHEM. CO., INC.	MARIETTA	NJ
2554	COLORADO FUEL & IRON STEEL CORP.	PUEBLO	GA
2560	COLT INDUSTRIES INC.	MIDLAND	CO
2570	COLUMBIA NITROGEN CORP.	AUGUSTA	PA
2580	COMBUSTION ENGINEERING, INC.	MUSE	GA
2590	COMMERCIAL PRODUCTS CO.	PONCE	PA
2600	COMMONWEALTH PETROCHEM., INC.	LOS ANGELES	NJ
2645	CONCHEMCO INC.	BALTIMORE	PR
2650	CREST CONTAINER CORP.	FORT WORTH	CA
2655	TEEPAK, INC.	DANVILLE	MD
2657	CONTINENTAL OIL CO.	WESTLAKE	TX
2660	CONTINENTAL OIL CO.	NEWARK	IL
2670	CONTINENTAL OIL CO.	BALTIMORE	LA
2680	CONTINENTAL OIL CO.	ABERDEEN	NJ
2690	CONTINENTAL OIL CO.	OKLAHOMA CITY	MD
2700	COOK PAINT & VARNISH CO.	MILPITAS	MS
2710			OK
			CA

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
2720	COOK PAINT & VARNISH CO.	DETROIT	MI
2730	COOK PAINT & VARNISH CO.	NORTH KANSAS CITY	MO
2740	COOK PAINT & VARNISH CO.	HOUSTON	TX
2750	COOPER POLYMERS, INC.	WILMINGTON	MA
2760	COOPERATIVE FARM CHEMS. ASSOCIATION	LAWRENCE	KS
2770	COPOLYMER RUBBER & CHEMICAL CORP.	BATON ROUGE	LA
2780	COR-LUBE, INC.	DANVILLE	IL
2790	COS-MAR, INC.	CARVILLE	LA
2800	COURTAULDS NORTH AMERICA INC.	LE MOYNE	AL
2805	C. P. CHEMS., INC.	SENAHEH	NJ
2810	CPC INTERNATIONAL INC.	NEWARK	NJ
2820	CPC INTERNATIONAL INC.	FOREST PARK	IL
2825	C. P. HALL CO., THE	CHICAGO	IL
2827	C. P. L. CORP.	EAST PROVIDENCE	RI
2830	CROMPTON & KNOWLES CORP.	GIBRALTAR	PA
2833	CRAIN CHEM. CO., INC.	DALLAS	TX
2835	CROMPTON & KNOWLES CORP.	FAIR LAWN	NJ
2840	CROMPTON & KNOWLES CORP.	READING	PA
2850	CROSBY CHEMS., INC.	PICAYUNE	MS
2860	CROWLEY CHEMICAL CO. INC.	CROWLEY	LA
2870	CROWLEY CHEMICAL CO. INC.	KENT	OH
2880	CROWLEY CHEMICAL CO. INC.	OKLAHOMA CITY	OK
2890	CROWLEY CHEMICAL CO. INC.	HOUSTON	TX
2900	CROWLEY TAR PRODUCTS CO., INC.	KENT	OH
2910	CROWN CENTRAL PETROLEUM CORP.	OKLAHOMA CITY	OK
2920	CROWN ZELLERBACH CORP.	PASADENA	TX
2930	CROWN ZELLERBACH CORP.	BOZALUSA	LA
2940	CROWN ZELLERBACH CORP.	CAMAS	WA
2955	CYCLO CHEMS. CORP.	MIAMI	FL
2957	CYCLOPS CORP.	PORTSMOUTH	OH
2960	CY/NO INDUSTRIES, INC.	WALLINGFORD	CT
2970	CY/NO INDUSTRIES, INC.	WESTWEGO	LA
2980	DAN RIVER, INC.	DANVILLE	VA
2990	DARLING & CO.	CHICAGO	IL
3000	DART INDUST. INC.	ELYRIA	OH
3010	DART INDUST. INC.	SANTA ANA	CA
3015	DART INDUST. INC.	BAYPORT	TX

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OCPOB NUMBER	COMPANY NAME	CITY	STATE
3020	DART INDUST. INC.	JOLIET	IL
3030	DART INDUST. INC.	HOLYOKE	MA
3040	DART INDUST. INC.	LUDLOW	MA
3050	DART INDUST. INC.	CLEVELAND	OH
3060	DART INDUST. INC.	ODESSA	TX
3070	DART INDUST. INC.	PASADENA	TX
3075	DAVIDSON RUBBER CO.	DOVER	NH
3080	DANE'S LABS., INC.	CHICAGO HEIGHTS	IL
3085	TEXAPOL CORP.	ALLENTOWN	PA
3090	STAR FIBERS, INC.	EDSFIELD	SC
3095	DAYCO CORP.	DAYTON	OH
3100	DE SOTO, INC.	BERKELEY	CA
3110	DE SOTO, INC.	CHICAGO HEIGHTS	IL
3120	DEGEN OIL & CHEM. CO.	GARLAND	TX
3130	DENKA CHEM. CORP.	JERSEY CITY	NJ
3140	DERBY CO., INC., THE	HOUSTON	TX
3145	DENNY CO., INC., THE	ST. LOUIS	MO
3150	DEXTER CORP., THE	ASHLAND	MA
3160	DEXTER CORP., THE	CITY OF INDUSTRY	CA
3170	DEXTER CORP., THE	HAYWARD	CA
3180	DEXTER CORP., THE	ROCKY HILL	CT
3190	DEXTER CORP., THE	WAUKEGAN	IL
3200	DEXTER CORP., THE	OLEAN	NY
3210	DIAMOND SHAMROCK CORP.	CLEVELAND	OH
3215	DIAMOND SHAMROCK CORP.	DELAWARE CITY	DE
3220	DIAMOND SHAMROCK CORP.	CURTIS BAY	MD
3230	DIAMOND SHAMROCK CORP.	CEARTOWN	GA
3235	DIAMOND SHAMROCK CORP.	LOUISVILLE	KY
3240	DIAMOND SHAMROCK CORP.	OXHARD	CA
3250	DIAMOND SHAMROCK CORP.	HARRISON	NJ
3255	DIAMOND SHAMROCK CORP.	ASHTABULA	OH
3260	DIAMOND SHAMROCK CORP.	PAINESVILLE	OH
3265	DIAMOND SHAMROCK CORP.	DEER PARK	TX
3270	DIAMOND SHAMROCK CORP.	CHARLOTTE	NC
3280	DIAMOND SHAMROCK CORP.	BELLE	WV
3285	DIAMOND SHAMROCK CORP.	CARLSTADT	NJ
3287	DISOGRIIN INDUST. CORP.	MANCHESTER	NH

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CCPD NUMBER	COMPANY NAME	CITY	STATE
3290	DIXIE CHEMICAL CO.	BAYPORT	TX
3300	DOCK RESINS CORP.	LINDEN	NJ
3310	DON CHEMICAL CO.	ANCHORAGE	AK
3313	DONNER-HANNA COKE CORP.	BUFFALO	NY
3315	DOW BADISCHE CO.	WILLIAMSBURG	VA
3320	DOW BADISCHE CO.	ANDERSON	SC
3330	DOW BADISCHE CO.	FREEDPORT	TX
3340	DOW CHEMICAL U.S.A.	MAGNOLIA	AR
3350	DOW CHEMICAL U.S.A.	PITTSBURG	CA
3360	DOW CHEMICAL U.S.A.	TORRANCE	CA
3370	DOW CHEMICAL U.S.A.	PLAQUEMINE	LA
3380	DOW CHEMICAL U.S.A.	RAY CITY	MI
3390	DOW CHEMICAL U.S.A.	MIDLAND	MI
3400	DOW CHEMICAL U.S.A.	FREEDPORT	TX
3410	DOW CHEMICAL U.S.A.	OYSTER CREEK	TX
3420	DOW CHEMICAL U.S.A.	ALLYN'S POINT	TX
3430	DOW CHEMICAL U.S.A.	GALES FERRY	CT
3440	DOW CHEMICAL U.S.A.	JOLIET	IL
3450	DOW CHEMICAL U.S.A.	PEVELY	MO
3460	DOW CHEMICAL U.S.A.	IRONTON	OH
3470	DOW CORNING CORP.	CARROLLTON	MI
3480	DYE SPECIALTIES, INC.	MIDLAND	MI
3490	DUTCH BOY, INC.	JERSEY CITY	NJ
3500	CARPENTER CHEM. CO.	BALTIMORE	MD
3510	EASTERN COLOR & CHEM. CO.	BAYPORT	TX
3513	EASTERN GAS & FUEL ASSOCIATES	PROVIDENCE	RI
3520	EASTMAN KODAK CO.	PHILADELPHIA	PA
3530	EASTMAN CHEM. PRODUCTS, INC.	ROCHESTER	NY
3540	EASTMAN CHEM. PRODUCTS, INC.	COLUMBIA	SC
3550	EASTMAN CHEM. PRODUCTS, INC.	KINGSFORD	TN
3560	E. I. DU PONT DE NEMOURS & CO., INC.	LONGVIEW	TX
3570	E. I. DU PONT DE NEMOURS & CO., INC.	ANTIOCH	CA
3580	E. I. DU PONT DE NEMOURS & CO., INC.	EAST CHICAGO	IN
3590	E. I. DU PONT DE NEMOURS & CO., INC.	LOUISVILLE	KY
3600	E. I. DU PONT DE NEMOURS & CO., INC.	LAPLACE	LA
3610	E. I. DU PONT DE NEMOURS & CO., INC.	MONTAGUE	MI
	E. I. DU PONT DE NEMOURS & CO., INC.	CAPE FEAR	NC

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

OCPR NUMBER	COMPANY NAME	CITY	STATE
3620	E. I. DU PONT DE NEMOURS & CO., INC.	HEALING SPRINGS	NC
3630	E. I. DU PONT DE NEMOURS & CO., INC.	DEEPWATER POINT	NJ
3635	E. I. DU PONT DE NEMOURS & CO., INC.	DEEPWATER	NJ
3640	E. I. DU PONT DE NEMOURS & CO., INC.	GIBBSTOWN	NJ
3650	E. I. DU PONT DE NEMOURS & CO., INC.	LINDEN	NJ
3660	E. I. DU PONT DE NEMOURS & CO., INC.	NIAGARA FALLS	NY
3670	E. I. DU PONT DE NEMOURS & CO., INC.	TOLEDO	OH
3680	E. I. DU PONT DE NEMOURS & CO., INC.	MEMPHIS	TN
3690	E. I. DU PONT DE NEMOURS & CO., INC.	BEAUMONT	TX
3700	E. I. DU PONT DE NEMOURS & CO., INC.	CORPUS CHRISTI	TX
3710	E. I. DU PONT DE NEMOURS & CO., INC.	LA PORTE	TX
3720	E. I. DU PONT DE NEMOURS & CO., INC.	ORANGE	TX
3730	E. I. DU PONT DE NEMOURS & CO., INC.	VICTORIA	TX
3740	E. I. DU PONT DE NEMOURS & CO., INC.	WAYNESBORO	VA
3750	E. I. DU PONT DE NEMOURS & CO., INC.	BELLE	WV
3760	E. I. DU PONT DE NEMOURS & CO., INC.	SAUGUS	MA
3770	E. I. DU PONT DE NEMOURS & CO., INC.	SOUTH SAN FRANCISCO	CA
3780	E. I. DU PONT DE NEMOURS & CO., INC.	FAIRFIELD	CT
3790	E. I. DU PONT DE NEMOURS & CO., INC.	NEWARK	DE
3800	E. I. DU PONT DE NEMOURS & CO., INC.	SEAFORD	DE
3810	E. I. DU PONT DE NEMOURS & CO., INC.	CLINTON	IA
3820	E. I. DU PONT DE NEMOURS & CO., INC.	CHICAGO	IL
3830	E. I. DU PONT DE NEMOURS & CO., INC.	SENECA	IL
3840	E. I. DU PONT DE NEMOURS & CO., INC.	TECUMSEH	KS
3850	E. I. DU PONT DE NEMOURS & CO., INC.	FLINT	MI
3860	E. I. DU PONT DE NEMOURS & CO., INC.	KINSTON	NC
3870	E. I. DU PONT DE NEMOURS & CO., INC.	FORT MADISON	IA
3880	E. I. DU PONT DE NEMOURS & CO., INC.	TUCKER	GA
3890	E. I. DU PONT DE NEMOURS & CO., INC.	BUFFALO	NY
3900	E. I. DU PONT DE NEMOURS & CO., INC.	CARNEYS POINT	NJ
3910	E. I. DU PONT DE NEMOURS & CO., INC.	PARLIN	NJ
3920	E. I. DU PONT DE NEMOURS & CO., INC.	CINCINNATI	OH
3930	E. I. DU PONT DE NEMOURS & CO., INC.	PHILADELPHIA	PA
3940	E. I. DU PONT DE NEMOURS & CO., INC.	CAMDEN	SC
3950	E. I. DU PONT DE NEMOURS & CO., INC.	CHATTANOOGA	TN
3960	E. I. DU PONT DE NEMOURS & CO., INC.	OLD HICKORY	TN
3970	E. I. DU PONT DE NEMOURS & CO., INC.	MARTINSVILLE	VA

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OCPR NUMBER	COMPANY NAME	CITY	STATE
3958	E. I. DU PONT DE NEMOURS & CO., INC.	RICHMOND	VA
3960	E. I. DU PONT DE NEMOURS & CO., INC.	PARKERSBURG	WV
3990	EL PASO PRODUCTS CO.	ODESSA	TX
4000	ELI LILLY AND CO.	LAFAYETTE	IN
4040	EMERY INDUST., INC.	CITY OF COMMERCE	CA
4050	EMERY INDUST., INC.	CINCINNATI	OH
4060	USM CORP.	MIDDLETON	MA
4070	USM CORP.	GREENVILLE	SC
4075	EMPIRE COKE CO.	HOLY	AL
4080	EMKAY CHEMICAL CO.	ELIZABETH	NJ
4085	S. W. SHATTUCK CHEM. CO., INC.	DENVER	CO
4090	ENERGY COOPERATIVE, INC.	EAST CHICAGO	IN
4100	ENERGY COOPERATIVE, INC.	PRYOR	OK
4110	HIPAK, INC.	KERENS	TX
4111	E. R. CARPENTER CO., INC.	CONOVER	NC
4112	E. R. CARPENTER CO., INC.	LA MIRADA	CA
4113	E. R. CARPENTER CO., INC.	RICHMOND	VA
4114	E. R. CARPENTER CO., INC.	RUSSELLVILLE	MO
4115	E. R. CARPENTER CO., INC.	TEMPLE	TX
4116	E. R. CARPENTER CO., INC.	TUPELO	MS
4130	SWIFT AGRICULTURAL CHEMICALS CORP.	DEAUMONT	TX
4135	ESSEX CHEM. CORP.	MERTON	WI
4140	ESSEX CHEM. CORP.	SAYREVILLE	NJ
4150	ETHYL CORP.	MAGNOLIA	AR
4160	ETHYL CORP.	BATON ROUGE	LA
4170	ETHYL CORP.	ORANGEBURG	SC
4180	ETHYL CORP.	PASADENA	TX
4190	EXXON CORP.	BATON ROUGE	LA
4210	EXXON CORP.	BAYWAY	NJ
4220	EXXON CORP.	BAYTOWN	TX
4230	FAIRMOUNT CHEM. CO., INC.	NEWARK	NJ
4240	UNIVERSAL POLYMER PRODUCTS CO.	FUQUAY-VARINA	NC
4250	HANOVER MILLS, INC.	YANCEYVILLE	NC
4260	ALABAMA WESTERN CHEM. CORP.	TUSCALOOSA	AL
4270	FARLAND INDUSTRIES, INC.	DODGE CITY	KS
4275	FARLAND INDUSTRIES, INC.	GREEN BAY	WI
4280	FELTON INTERNATIONAL INC.	BROOKLYN	NY

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OCPOB NUMBER	COMPANY NAME	CITY	STATE
4290	FERRO CORP.	SANTA FE SPRINGS	CA
4300	FERRO CORP.	BATON ROUGE	LA
4310	FERRO CORP.	TOLEDO	OH
4320	FIBER INDUST., INC.	SALISBURY	NC
4330	FIBER INDUST., INC.	SHELBY	NC
4340	FIBER INDUST., INC.	DARLINGTON	SC
4350	FIBER INDUST., INC.	GREENVILLE	SC
4360	FIKE CHEMICALS, INC.	NITRO	WV
4370	FIRESTONE TIRE & RUBBER CO., THE	ORANGE	TX
4371	FIRESTONE TIRE & RUBBER CO., THE	CONOVER	NC
4372	FIRESTONE TIRE & RUBBER CO., THE	CORRY	PA
4373	FIRESTONE TIRE & RUBBER CO., THE	ELKHART	IN
4374	FIRESTONE TIRE & RUBBER CO., THE	MILAN	TN
4375	FIRESTONE TIRE & RUBBER CO., THE	THOMASVILLE	GA
4380	FIRESTONE TIRE & RUBBER CO., THE	PERRYVILLE	MO
4390	FIRESTONE TIRE & RUBBER CO., THE	POTTSTOWN	PA
4400	FIRESTONE TIRE & RUBBER CO., THE	HOPKINSON	VA
4410	FIRESTONE TIRE & RUBBER CO., THE	HOPKINSON	VA
4415	FIRESTONE TIRE & RUBBER CO., THE	PASCAGOULA	MS
4420	FIRESTONE TIRE & RUBBER CO., THE	PARK FALLS	WI
4430	FIRESTONE TIRE & RUBBER CO., THE	SUN VALLEY	CA
4440	FIRESTONE TIRE & RUBBER CO., THE	BALTIMORE	MD
4450	FIRESTONE TIRE & RUBBER CO., THE	MIDDLEPORT	NY
4460	FIRESTONE TIRE & RUBBER CO., THE	BAYPORT	TX
4470	FIRESTONE TIRE & RUBBER CO., THE	SOUTH CHARLESTON	WV
4480	FIRESTONE TIRE & RUBBER CO., THE	ROUGE	MI
4490	FIRESTONE TIRE & RUBBER CO., THE	MT. CLEMENS	MI
4500	FIRESTONE TIRE & RUBBER CO., THE	CINCINNATI	OH
4510	FIRESTONE TIRE & RUBBER CO., THE	COLUMBUS	OH
4520	FIRESTONE TIRE & RUBBER CO., THE	EAST HANOVER	NJ
4530	FIRESTONE TIRE & RUBBER CO., THE	CALVERT CITY	KY
4540	FIRESTONE TIRE & RUBBER CO., THE	LINDEN	NJ
4550	FIRESTONE TIRE & RUBBER CO., THE	RENSSELAER	NY
4560	FIRESTONE TIRE & RUBBER CO., THE	CHELSEA	MA
4570	FIRESTONE TIRE & RUBBER CO., THE	MOUNT VERNON	IN
4580	FIRESTONE TIRE & RUBBER CO., THE	PIITSFIELD	MA
4590	FIRESTONE TIRE & RUBBER CO., THE	SCHENECTADY	NY
4600	FIRESTONE TIRE & RUBBER CO., THE		
4610	FIRESTONE TIRE & RUBBER CO., THE		
4620	FIRESTONE TIRE & RUBBER CO., THE		
4630	FIRESTONE TIRE & RUBBER CO., THE		
4640	FIRESTONE TIRE & RUBBER CO., THE		
4650	FIRESTONE TIRE & RUBBER CO., THE		
4660	FIRESTONE TIRE & RUBBER CO., THE		

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OCPOB NUMBER	COMPANY NAME	CITY	STATE
4670	GENERAL ELECTRIC CO.	SELKIRK	NY
4680	GENERAL ELECTRIC CO.	WATERFORD	NY
4690	GENERAL ELECTRIC CO.	COSHOCOTON	OH
4700	GENERAL TIRE & RUBBER CO., THE	ASHTABULA	OH
4720	SEN. LATEX AND CHEM. CORP.	CUCAMONGA	CA
4730	SEN. LATEX AND CHEM. CORP.	DALTON	GA
4740	SEN. LATEX AND CHEM. CORP.	CAMBRIDGE	MA
4750	SEN. LATEX AND CHEM. CORP.	CHARLOTTE	NC
4760	SEN. LATEX AND CHEM. CORP.	ASHLAND	OH
4765	SEN. MOTORS CORP.	DAYTON	OH
4771	SEN. TIRE & RUBBER CO., THE	MARTON	IN
4772	SEN. TIRE & RUBBER CO., THE	NEWMAN	GA
4773	SEN. TIRE & RUBBER CO., THE	ORANGE	CA
4780	GEORGIA-PACIFIC CORP.	CROSSETT	AR
4790	GEORGIA-PACIFIC CORP.	UKIAH	CA
4795	GEORGIA-PACIFIC CORP.	PAINESVILLE	OH
4800	GEORGIA-PACIFIC CORP.	PORT WENTWORTH	GA
4810	GEORGIA-PACIFIC CORP.	VIENNA	GA
4820	GEORGIA-PACIFIC CORP.	PLAQUEMINE	LA
4830	GEORGIA-PACIFIC CORP.	LOUISVILLE	MS
4840	GEORGIA-PACIFIC CORP.	TAYLORSVILLE	MS
4850	GEORGIA-PACIFIC CORP.	CONWAY	NC
4860	GEORGIA-PACIFIC CORP.	COLUMBUS	OH
4870	GEORGIA-PACIFIC CORP.	ALBANY	OR
4880	GEORGIA-PACIFIC CORP.	COOS BAY	OR
4890	GEORGIA-PACIFIC CORP.	RUSSELLVILLE	SC
4900	GEORGIA-PACIFIC CORP.	LUFKIN	TX
4910	GEORGIA-PACIFIC CORP.	BELLINGHAM	WA
4915	HANKEYE CHEM. CO.	CLINTON	IA
4920	CHEMBOND CORP.	ANDALUSIA	AL
4930	GETTY REFINING AND MARKETING CO.	DELAWARE CITY	DE
4940	GETTY REFINING AND MARKETING CO.	EL DORADO	KS
4950	CHEMBOND CORP.	WINFIELD	LA
4960	CHEMBOND CORP.	SPRINGFIELD	OR
4970	CHEMBOND CORP.	SPOKANE	WA
4975	GLOVER M. BIRK	NEW ALBANY	IN
4980	GILMAN PAINT & VARNISH CO.	CHATTANOOGA	TN

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
4990	SIVAUDAN CORP.	CLIFTON	NJ
5000	GOODPASTURE, INC.	DIMITT	TX
5010	GOODYEAR TIRE & RUBBER CO., THE	BAYPORT	TX
5015	GOODYEAR TIRE & RUBBER CO., THE	BAKERSFIELD	CA
5020	GOODYEAR TIRE & RUBBER CO., THE	BEAUMONT	TX
5025	GOODYEAR TIRE & RUBBER CO., THE	LOGAN	OH
5030	GOODYEAR TIRE & RUBBER CO., THE	SCOTTSDALE	AL
5035	GOODYEAR TIRE & RUBBER CO., THE	LUCKEY	OH
5040	GOODYEAR TIRE & RUBBER CO., THE	PLAQUEMINE	LA
5045	GOODYEAR TIRE & RUBBER CO., THE	ST. MARYS	OH
5050	GOODYEAR TIRE & RUBBER CO., THE	NIAGARA FALLS	NY
5060	GOODYEAR TIRE & RUBBER CO., THE	AKRON	OH
5070	GOODYEAR TIRE & RUBBER CO., THE	POINT PLEASANT	WV
5080	GRAIN PROCESSING CORP.	MUSCATINE	IA
5090	GREAT AMERICAN CHEM. CORP.	FITCHBURG	MA
5095	GREAT LAKES CARBON CORP.	ST. LOUIS	MO
5100	GREAT LAKES CHEMICAL CORP.	EL DORADO	AR
5110	GREAT NORTHERN PAINT & CHEM. CORP.	EAST PATERSON	NJ
5120	GREAT NORTHERN PAINT & CHEM. CORP.	LODI	NJ
5130	BOYSEN PAINT CO.	OAKLAND	CA
5140	U. S. PAINT, LACQUER AND CHEM. CO.	ST. LOUIS	MO
5150	GUARDIAN CHEMICAL CORP.	HAUPPAUGE	NY
5160	GUARDSMAN CHEMS., INC.	GRAND RAPIDS	MI
5170	GULFORD MILLS, INC.	GAINESVILLE	GA
5171	GULF COAST OLEFINS CO.	TAFT	LA
5174	GULF OIL CORP.	ST. JAMES	LA
5175	GULF OIL CORP.	WEST MEMPHIS	AR
5180	GULF OIL CORP.	CLEVELAND	OH
5185	HARSHAW CHEM. CO.	MILITARY	KS
5190	GULF OIL CORP.	ALEXANDRIA	LA
5200	GULF OIL CORP.	MARIETTA	OH
5205	GULF OIL CORP.	HIGH POINT	NC
5210	GULF OIL CORP.	BELVIDERE	IL
5215	MILLMASTER ONYX GROUP	LANSDALE	PA
5220	GULF OIL CORP.	LINDEN	NJ
5225	MILLMASTER ONYX GROUP	ORANGE	TX
5230	GULF OIL CORP.	NORTH SALT LAKE	UT
5235	MILLMASTER ONYX GROUP		

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPR NUMBER	COMPANY NAME	CITY	STATE
5240	GULF OIL CORP.	SHAWANO	WI
5250	GULF OIL CORP.	ALLIANCE	LA
5270	GULF OIL CORP.	VIKSBURG	MS
5280	GULF OIL CORP.	PHILADELPHIA	PA
5290	GULF OIL CORP.	CEDAR BAYOU	TX
5300	GULF OIL CORP.	PORT ARTHUR	TX
5305	LITHIUM CORP. OF AMERICA, INC.	BESSEMER CITY	NC
5310	H. KOHNSTAMM & CO., INC.	CLEARING	IL
5320	H. KOHNSTAMM & CO., INC.	CARDEN	NJ
5330	H & N CHEM. CO.	TOTOWA	NJ
5340	HANNA CHEM. COATINGS CO.	BIRMINGHAM	AL
5350	HANNA CHEM. COATINGS CORP.	COLUMBUS	OH
5360	HARDMAN INC.	BELEVILLE	NJ
5370	HARDVICK CHEMICAL CO.	ELGIN	SC
5380	HARMON COLORS CORP.	HALEDON	NJ
5385	HANOSCHY CHEM. CO.	RIVERDALE	IL
5390	HART PRODUCTS CORP.	JERSEY CITY	NJ
5395	HARSTAN CHEM. CORP.	BROOKLYN	NY
5400	HAVEN INDUST., INC.	PHILADELPHIA	PA
5410	H. B. FULLER CO.	ATLANTA	GA
5420	H. B. FULLER CO.	EDISON	NJ
5430	HEICO, INC.	BLUE ASH	OH
5440	HELMERICH AND PAYNE, INC.	DELAWARE WATER GAP	PA
5450	HENKEL INC.	BAYTOWN	TX
5460	HENKEL INC.	HANTHORNE	CA
5465	HERCOFINA	KANKAKEE	IL
5480	HERCOFINA	PLAQUEMINE	LA
5485	HERCOFINA	BIG SPRING	TX
5490	HERCOFINA	WILMINGTON	NC
5495	HERCOR CHEMICAL CORP.	PORT ARTHUR	TX
5510	HERCULES INC.	PENUELAS	PR
5520	HERCULES INC.	BATON ROUGE	LA
5530	HERCULES INC.	LAKE CHARLES	LA
5540	HERCULES INC.	WEST ELIZABETH	PA
5550	HERCULES INC.	BAYPORT	TX
5570	HERCULES INC.	BRUNSWICK	GA
5580	HERCULES INC.	SAVANNAH	GA

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPDB NUMBER	COMPANY NAME	CITY	STATE
5600	HERCULES INC.	CHICOPPEE	MA
5610	HERCULES INC.	HARBOR BEACH	MI
5620	HERCULES INC.	LOUISIANA	MO
5630	HERCULES INC.	HATTIESBURG	MS
5640	HERCULES INC.	WILKINGTON	NC
5645	HAVER INDUST.. INC.	WILKINGTON	DE
5650	HERCULES INC.	GIBBSTOWN	NJ
5660	HERCULES INC.	PARLIN	NJ
5670	HERCULES INC.	GLENS FALLS	NY
5680	HERCULES INC.	PORTLAND	OR
5690	HERCULES INC.	CLAIRTON	PA
5700	HERCULES INC.	HOPEWELL	VA
5710	HERCULES INC.	MILWAUKEE	WI
5720	HERCULES INC.	MANITOWOC	WI
5730	HERSITTE & CHEM. CO.	CHATSORTH	CA
5740	HEXCEL CORP.	BURLINGTON	IA
5745	FREEMAN CHEM. CORP.	BURLINGTON	VA
5750	FREEMAN CHEM. CORP.	CHATHAM	VA
5760	FREEMAN CHEM. CORP.	SAUKVILLE	WI
5770	HODAS CHEMICAL CORP.	SKOKIE	IL
5780	HONERTON GOWEN CHEMICALS, INC.	ROANOK RAPIDS	NC
5790	HUGH J.-RESINS CO.	LONG BEACH	CA
5800	HUMMEL CHEM. CO., INC.	SOUTH PLAINFIELD	NJ
5810	HUMPHREY CHEMICAL CO., THE	NORTH HAVEN	CT
5815	HUNTSMAN CONTAINER CORP.	TROY	OH
5820	SOLVENT CHEM. CORP.	NIAGARA FALLS	NY
5830	DOVER CHEMICAL CORPORATION	DOVER	OH
5835	IMPERIAL CHEMICAL INDUSTRIES LTD.	HOPEWELL	VA
5840	IMPERIAL CHEMICAL INDUSTRIES LTD.	NEW CASTLE	DE
5850	IMPERIAL CHEMICAL INDUSTRIES LTD.	BAYONNE	NJ
5860	INDEPENDENT REFINING CORP.	WINNIE	TX
5865	INDIANA GAS & CHEM. CORP.	TERRE HAUTE	IN
5870	INDPOL CHEMICAL CORP.	CUCAMONGA	CA
5880	INLAND CHEMICAL CORP.	MANATI	PR
5895	INLAND CHEMICAL CORP.	NEWARK	NJ
5900	INLAND STEEL CO.	ALSIP	IL
5905	INLAND STEEL CO.	INDIANA HARBOR	IN
5910	INMONT CORP.	ANAHEIM	CA

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

CCPDR NUMBER	COMPANY NAME	CITY	STATE
5920	INMONT CORP.	DETROIT	MI
5930	INMONT CORP.	GRAND RAPIDS	MI
5940	INMONT CORP.	CINCINNATI	OH
5950	INMONT CORP.	GREENVILLE	OH
5960	INSILCO CORP.	LOS ANGELES	CA
5970	INSILCO CORP.	WHEELING	IL
5980	INTERLAKE, INC.	CHICAGO	IL
5990	INTERNATIONAL HARVESTER CO.	TOLEDO	OH
5991	IMEX POLYMERS, INC.	SOUTH CHICAGO	IL
5995	IMC CHEM. GROUP, INC.	NEW BEDFORD	MA
6000	IMC CHEM. GROUP, INC.	CARPENTERSVILLE	IL
6010	IMC CHEM. GROUP, INC.	TERRE HAUTE	IN
6020	ARISTO INTERNATIONAL CORP.	STERLINGTON	LA
6030	IMC CHEM. GROUP, INC.	DETROIT	MI
6040	INTERNAT'L FLAVORS & FRAGRANCES, INC.	SEIPLE	PA
6050	INTERPLASTIC CORP.	UNION BEACH	NJ
6055	IOVITE CHEMS., INC.	MINNEAPOLIS	MN
6057	IRONSIDES CO., THE	MATTESON	IL
6060	ISOCHEN RESINS CO.	COLUMBUS	OH
6070	J. N. SIMPLY CO.	LINCOLN	RI
6090	JEFFERSON CHEM. CO., INC.	POCATELLO	ID
6110	JEFFERSON CHEM. CO., INC.	CONROE	TX
6120	JEFFERSON CHEM. CO., INC.	PORT NECHES	TX
6130	JEFFERSON CHEM. CO., INC.	AUSTIN	TX
6140	JIM WALTER RESOURCES, INC.	BIRMINGHAM	AL
6150	JOC OIL, INC.	HOUSTON	TX
6160	JOHN L. ARMITAGE & CO.	RICHMOND	CA
6170	JOHN L. ARMITAGE & CO.	ELK GROVE VILLAGE	IL
6180	JOHN L. ARMITAGE & CO.	NEWARK	NJ
6190	JONES & LAUGHLIN STEEL CORP.	ALBUQUERQUE	PA
6195	JONES & LAUGHLIN STEEL CORP.	PITTSBURGH	PA
6200	JONES-BLAIR CO.	DALLAS	TX
6205	KAISER STEEL CORP.	FONTANA	CA
6210	KAISER ALUMINUM & CHEM. CORP.	SAVANNAH	GA
6220	KALAMA CHEM. INC.	KALAMA	WA
6225	MONROE CHEM. INC.	EDDYSTONE	PA
6227	KARECKI BERTLCO INDUST., INC.	BOYERTOWN	PA

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

CCPDR NUMBER	COMPANY NAME	CITY	STATE
6229	KANECKI BERYLCO INDUST., INC.	REVERE	PA
6230	KAYSER-ROTH CORP.	CREEDMORE	NC
6240	KAY-FRIES CHEMICALS INC.	STONY POINT	NY
6250	KELLY-MOORE PAINT CO.	SAN CARLOS	CA
6260	SOUTHWESTERN REFINING CO., INC.	CORPUS CHRISTI	TX
6290	MILLMASTER ONYX GROUP	LYNDHURST	NJ
6310	KEYSOR CORP.	SAUGUS	CA
6320	K. J. GUINN & CO., INC.	MALDEN	MA
6330	K. J. GUINN & CO., INC.	SEABROOK	NH
6340	KNOEDLER CHEM. CO.	LANCASTER	PA
6350	KOHLER-MCLISTER PAINT CO.	DENVER	CO
6360	KOPPERS CO., INC.	WOODWARD	AL
6365	KOPPERS CO., INC.	ERIE	PA
6370	KOPPERS CO., INC.	FONTANA	CA
6380	KOPPERS CO., INC.	CICERO	IL
6385	KOPPERS CO., INC.	RICHMOND	CA
6390	KOPPERS CO., INC.	BRIDGEVILLE	PA
6400	KOPPERS CO., INC.	OIL CITY	PA
6405	KOPPERS CO., INC.	ST. PAUL	MN
6410	KOPPERS CO., INC.	PETROLIA	PA
6420	KOPPERS CO., INC.	FOLLANSBEE	WV
6430	KORDELL INDUST.	MISHANAKA	IN
6440	KRAFT, INC.	MEMPHIS	TN
6445	LACHAT CHEMICALS INC.	MEQUON	WI
6460	ROFORS LAKENAY, INC.	MUSKEGON	MI
6470	LAWTER CHEMS., INC.	BENSENVILLE	IL
6480	LEVER BROTHERS CO.	SOUTH KEARNY	NJ
6490	LEVER BROTHERS CO.	LOS ANGELES	CA
6510	LEVER BROTHERS CO.	HAMMOND	IN
6520	LEVER BROTHERS CO.	BALTIMORE	MD
6530	LEVER BROTHERS CO.	ST. LOUIS	MO
6540	LOF PLASTIC PRODUCTS	EDGEWATER	NJ
6545	LILLY INDUST. COATINGS, INC.	AUBURN	ME
6545	LILLY INDUST. COATINGS, INC.	INDIANAPOLIS	IN
6550	LONZA INC.	MONTEBELLO	CA
6555	LONZA INC.	MAPLETON	IL
		BAYPORT	TX

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
6560	LORD CORP.	SAEGERTOWN	PA
6570	LUBRIZOL CORP., THE	DEER PARK	TX
6573	NET CHEMS. INC.	LOS ANGELES	CA
6575	N. A. BRUDER & SONS, INC.	PHILADELPHIA	PA
6577	YOUNGSTOWN SHEET AND TUBE CO.	CAMPBELL	OH
6578	YOUNGSTOWN SHEET AND TUBE CO.	INDIANA HARBOR	IN
6580	MACHENZIE CHEMICAL WORKS, INC.	CENTRAL ISLIP	NY
6594	MAK CHEM. CO.	MUNCIE	IN
6600	MALLINCKRODT, INC.	ST. LOUIS	MO
6605	MALLINCKRODT, INC.	ERIE	PA
6610	MALLINCKRODT, INC.	RALEIGH	NC
6620	MALLINCKRODT, INC.	LODI	NJ
6625	MALLINCKRODT, INC.	JERSEY CITY	NJ
6630	MAMECO INTERNAT'L	CLEVELAND	OH
6640	MARATHON OIL CO.	ROBINSON	IL
6650	MARATHON OIL CO.	DETROIT	MI
6660	MARATHON OIL CO.	TEXAS CITY	TX
6670	MARTIN MARIETTA CHEMICALS	SODTECO	NC
6675	MATTHEY BISHOP, INC.	WINSLOW	NJ
6680	MASONITE CORP.	GULFPORT	MS
6690	MCCLOSKEY VARNISH CO.	LOS ANGELES	CA
6700	MCCLOSKEY VARNISH CO.	PORTLAND	OR
6710	MCCLOSKEY VARNISH CO.	PHILADELPHIA	PA
6715	MCCLOSKEY VARNISH CO.	CLEVELAND	OH
6720	MCGEAN CHEM. CO., INC.	WOODWARD	AL
6730	MEAD CORP.	DONALDSONVILLE	LA
6735	MELAMINE CHEMS., INC.	BALTIMORE	MD
6740	MINEREC CORP.	ALBANY	GA
6750	MERCK & CO., INC.	HOUSTON	TX
6760	MERICHEN CO.	ATCHINSON	KS
6780	MIDWEST SOLVENTS CO. INC.	JUNEAU	WI
6785	MILGREN INC.	LAURENS	SC
6800	MILLIKEN & CO.	NEWARK	NJ
6810	MILLMASTER ONYX GROUP	MILWAUKEE	WI
6815	MILWAUKEE SOLVAY COKE CO.	DECATUR	AL
6820	MINNESOTA MINING AND MANUFACTURING CO.	ST. PAUL	MN
6830	MINNESOTA MINING AND MANUFACTURING CO.	YAZOO CITY	MS
6840	MISSISSIPPI CHEMICAL CORP.		

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCFOR NUMBER	COMPANY NAME	CITY	STATE
6845	MOBAY CHEMICAL CORP.	BAYONNE	NJ
6850	MOBAY CHEMICAL CORP.	BUSHY PARK	SC
6855	MOBAY CHEMICAL CORP.	SANTA ANA	CA
6860	MOBAY CHEMICAL CORP.	BAYTOWN	TX
6870	MOBAY CHEMICAL CORP.	CEDAR BAYOU	TX
6875	MINERAL RESEARCH AND DEV. CORP.	CONCORD	NC
6880	MOBAY CHEMICAL CORP.	NEW MARTINSVILLE	WV
6885	MOBIL OIL CORP.	JOLIET	IL
6890	STANDARD T CHEM. CO., INC.	CHICAGO HEIGHTS	IL
6900	MOBIL OIL CORP.	KANKAKEE	IL
6910	MOBIL OIL CORP.	EDISON	NJ
6920	STANDARD T CHEM. CO., INC.	STATEN ISLAND	NY
6930	MOBIL OIL CORP.	CLEVELAND	OH
6940	MOBIL OIL CORP.	PITTSBURGH	PA
6950	MOBIL OIL CORP.	ROCHESTER	PA
6960	STANDARD T CHEM. CO., INC.	DALLAS	TX
6970	MOBIL OIL CORP.	BEAUMONT	TX
6980	MONOCHEM, INC.	GEISMAR	LA
6990	MONOFILAMENTS, INC.	WAYNESBORO	VA
7000	SPAULDING FIBRE CO.	DE KALB	IL
7010	SPAULDING FIBRE CO.	TONAWANDA	NY
7015	MONSANTO CO.	FAYETTEVILLE	NC
7020	MONSANTO CO.	ANNISTON	AL
7025	MONSANTO CO.	DECATUR	AL
7030	MONSANTO CO.	SAND MOUNTAIN	AL
7040	MONSANTO CO.	LONG BEACH	CA
7050	MONSANTO CO.	SANTA CLARA	CA
7060	MONSANTO CO.	PENSACOLA	FL
7070	MONSANTO CO.	ROSCATINE	IA
7080	MONSANTO CO.	SAUGET	IL
7090	MONSANTO CO.	LULING	IL
7100	MONSANTO CO.	EVERETT	LA
7110	MONSANTO CO.	SPRINGFIELD	MA
7120	MONSANTO CO.	TRENTON	MI
7130	MONSANTO CO.	ST. LOUIS	MO
7140	MONSANTO CO.	BRIDGEPORT	NJ
7150	MONSANTO CO.	KEARNY	NJ
7160	MONSANTO CO.		

ORGANIC CHEMICAL PRODUCERS DATA BASE
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OCPOB NUMBER	COMPANY NAME	CITY	STATE
7170	MONSANTO CO.	ADDYSTON	OH
7180	MONSANTO CO.	EUGENE	OR
7190	MONSANTO CO.	GREENWOOD	SC
7200	MONSANTO CO.	CHOCOLATE BAYOU	TX
7210	MONSANTO CO.	TEXAS CITY	TX
7220	MONSANTO CO.	NITRO	WV
7230	MONSANTO CO.	TORRANCE	CA
7240	MONSANTO CO.	HENDERSON	WV
7245	MOONEY CHEM., INC.	FRANKLIN	PA
7250	MORTON-INDUST. INC.	EAST ST. LOUIS	IL
7255	MORTON-NORWICH PRODUCTS, INC.	RINGWOOD	IL
7260	MORTON-NORWICH PRODUCTS, INC.	NORWICH	NY
7270	MURRO CHEMICAL CO.	PORTSMOUTH	VA
7280	NALCO CHEMICAL CO.	FREEDPORT	TX
7290	NALCO CHEMICAL CO.	SUGARLAND	TX
7300	NAPKO CORP.	HOUSTON	TX
7305	NAPP CHEMICALS, INC.	LODI	NJ
7310	NATIONAL BIOCHEMICAL CO.	CHICAGO	IL
7320	NATIONAL CASEIN CO.	CHICAGO	IL
7330	NATIONAL CASEIN CO.	TYLER	TX
7340	NATIONAL CASEIN OF CALIFORNIA	SANTA ANA	CA
7350	NATIONAL DISTILLERS AND CHEMICAL CORP.	RIVERTON	NJ
7360	NATIONAL DISTILLERS AND CHEMICAL CORP.	TUSCULA	IL
7370	NATIONAL DISTILLERS AND CHEMICAL CORP.	DEER PARK	TX
7380	NATIONAL PETRO CHEM. CORP.	LA PORTE	TX
7390	NATIONAL STARCH AND CHEM. CORP.	LONG MOTT	TX
7400	NATIONAL STARCH AND CHEM. CORP.	WENEDOSIA	IL
7410	PROCTOR CHEMICAL COMPANY	SALISBURY	NC
7420	NATIONAL STARCH AND CHEM. CORP.	PLAINFIELD	NJ
7430	NATIONAL STEEL CORP.	GRANITE CITY	IL
7440	NATIONAL STEEL CORP.	WEIRTON	WV
7445	NATIONAL STEEL CORP.	ZUG ISLAND (RIVER ROUGE)	MI
7450	NEASE CHEMICAL CO., INC.	FERNALD	OH
7460	NEASE CHEMICAL CO., INC.	STATE COLLEGE	PA
7470	NECHES BUTANE PRODUCTS CO.	PORT NECHES	TX
7480	NEPERA CHEM. CO., INC.	HARRISMAN	NY
7485	NEVILLE CHEM. CO.	ANAHEIM	CA
7490	NEVILLE CHEM. CO.	ANAHEIM	CA

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPO# NUMBER	COMPANY NAME	CITY	STATE
7500	NEVILLE CHEM. CO.	NEVILLE ISLAND	PA
7510	NIPRO, INC.	AUGUSTA	GA
7520	N. L. INDUST., INC.	PHILADELPHIA	PA
7525	N. L. INDUST., INC.	BAYONNE	NJ
7530	NORAC CO., INC., THE	AZUSA	CA
7540	NORAC CO., INC., THE	LODI	NJ
7550	NORAC INC.	BOONTON	NJ
7560	NORRIS PAINT & VARNISH CO.	SALEM	OR
7580	LEFFINGWELL CHEM. CO.	BREA	CA
7590	THOMPSON-HAYWARD CHEM. CO.	KANSAS CITY	KS
7600	NORTHEASTERN LABS. CO., INC.	MELVILLE	NY
7620	NORTHERN PETROCHEM. CO.	MORRIS	IL
7630	NORTHWEST INDUST. INC.	EL DORADO	AR
7635	LOME STAR STEEL CO.	DAINGERFIELD	TX
7640	VELSICOL CHEM. CORP.	ST. LOUIS	MI
7650	VELSICOL CHEM. CORP.	CHATTANOOGA	TN
7660	VELSICOL CHEM. CORP.	BEAUMONT	TX
7670	LOME STAR STEEL CO.	LOME STAR	TX
7680	VELSICOL CHEM. CORP.	MARSHALL	IL
7690	VELSICOL CHEM. CORP.	MEMPHIS	TN
7700	NOVAMONT CORP.	KENOVA	WV
7710	NYANZA INC.	ASHLAND	MA
7720	NYLENE	JENKINSVILLE	SC
7730	M-REN CORP.	PRYOR	OK
7735	M-REN CORP.	EAST DUBUQUE	IL
7745	SHARON STEEL CORP.	FAIRMONT	WV
7750	O'BRIEN CORP., THE	SOUTH SAN FRANCISCO	CA
7760	O'BRIEN CORP., THE	SOUTH BEND	IN
7770	O'BRIEN CORP., THE	BALTIMORE	MD
7780	HOOKE CHEMS. AND PLASTICS CORP.	TAFT	LA
7790	HOOKE CHEMS. AND PLASTICS CORP.	MONTAGUE	MI
7800	RUCO	BURLINGTON	NJ
7810	RUCO	HICKSVILLE	NY
7820	HOOKE CHEMS. AND PLASTICS CORP.	NIAGARA FALLS	NY
7830	HOOKE CHEMS. AND PLASTICS CORP.	NORTH TONAWANDA	NY
7840	HOOKE CHEMS. AND PLASTICS CORP.	KENTON	OH
7850	PUERTO RICO CHEM. CO.	ARECIBO	PR

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
7860	OLIN CORP.	COVINGTON	IN
7865	OLIN CORP.	FOGELSVILLE	PA
7870	OLIN CORP.	BRANDENBURG	PA
7880	OLIN CORP.	LAKE CHARLES	LA
7890	OLIN CORP.	PISGAH	NC
7900	OLIN CORP.	ROCHESTER	NY
7910	OLIN CORP.	ASHTABULA	OH
7920	ONYX OILS & RESINS, INC.	BROOKER	FL
7930	ORBIS PRODUCTS CORP.	NEWARK	NJ
7940	OWENS-CORNING FIBERGLAS CORP.	NEWARK	NJ
7950	OWENS-CORNING FIBERGLAS CORP.	VALPARAISO	IN
7960	OWENS-CORNING FIBERGLAS CORP.	NEWARK	OH
7970	OWENS-CORNING FIBERGLAS CORP.	ANDERSON	SC
7980	OWENS-CORNING FIBERGLAS CORP.	CHANNELVIEW	TX
7995	OXIRAYE CORP.	BAYPORT	TX
8000	OXICHEM ENTERPRISE	PENUELAS	PR
8010	P. D. GEORGE CO., THE	ST. LOUIS	MO
8020	PACIFIC ANCHOR CHEM. CORP.	LOS ANGELES	CA
8030	PACIFIC SOAP CO.	VERNON	CA
8050	PANTASOYE CO. OF NEW YORK, INC., THE	PASSAIC	NJ
8060	PANTASOYE CO. OF NEW YORK, INC., THE	POINT PLEASANT	WV
8080	PELIRON CORP.	LYONS	IL
8090	PENNNALT CORP.	CALVERT CITY	IL
8100	PENNNALT CORP.	WYANDOTTE	MI
8110	PENNNALT CORP.	THOROFARE	NJ
8120	PENNNALT CORP.	GENESE	NY
8130	PENNNALT CORP.	BEAUMONT	TX
8140	PENNNALT CORP.	GREENS BAYOU	TX
8150	ATLAS PROCESSING CO.	SHREVEPORT	LA
8160	PERSTORP INC.	FLORENCE	LA
8165	PERSTORP INC.	TOLEDO	OH
8167	PESTER REFINING CO.	EL DORADO	OH
8168	PERRY & DERRICK CO.	LOS ANGELES	CA
8169	PERRY & DERRICK CO.	DAYTON	OH
8180	PFANSTIEHL LABORATORIES, INC.	HAUKEGAN	IL
8190	POLYMER INDUST., INC.	SPRINGDALE	CT
8200	POLYMER INDUST., INC.	GREENVILLE	SC

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPDR NUMBER	COMPANY NAME	CITY	STATE
8210	PHILLIPS PACIFIC CHEM. CO.	FINLEY	WA
8220	PHILLIPS PETROLEUM CO.	BEATRICE	NE
8230	PHILLIPS PUERTO RICO CORE INC.	GUAYAMA	PR
8235	PHILLIPS FIBERS CORP.	ROCKY MOUNT	NC
8240	PHILLIPS PETROLEUM CO.	BORER	TX
8250	PHILLIPS PETROLEUM CO.	PASADENA	TX
8260	PHILLIPS PETROLEUM CO.	PHILLIPS	TX
8270	PHILLIPS PETROLEUM CO.	SWEENEY	TX
8280	PIERCE CHEMICAL CO.	ROCKFORD	IL
8290	PILOT INDUSTRIES OF TEXAS	HOUSTON	TX
8300	PILOT CHEM. CO.	SANTA FE SPRINGS	CA
8310	PILOT CHEM. CO.	LOCKLAND	OH
8320	PIONEER SOAP CO., INC.	SAN FRANCISCO	CA
8330	PLASTICS ENGINEERING CO.	SHERBOYGAN	CA
8340	PLASTICS MFG. CO.	DALLAS	TX
8350	PLATINIL CO.	BIRDSBORO	PA
8360	POLY RESINS, INC.	SUN VALLEY	CA
8370	CELLOMER CORP.	NEWARK	CA
8373	POLYMERS INC.	MIDDLEBURY	NJ
8375	POLYMER MATERIALS, INC.	FARMINGDALE	NY
8377	XCEL CORP.	NEWARK	NY
8380	POLYMER APPLICATIONS, INC.	TOMAWANDA	NJ
8385	POLYMER INDUST., INC.	OAKLAND	CA
8390	POLYREZ CO., INC.	WOODBURY	CA
8400	POLYSAR GROUP	FOREST CITY	NJ
8405	POLYSAR GROUP	COPLEY	NC
8407	POLYSAR GROUP	LEOMINSTER	OH
8410	PPS INDUSTRIES, INC.	LAKE CHARLES	MA
8420	PPS INDUSTRIES, INC.	BARBERTON	LA
8430	PPS INDUSTRIES, INC.	GUAYANILLA	OH
8440	PPS INDUSTRIES, INC.	BEAUMONT	PR
8445	PPS INDUSTRIES, INC.	SPRINGDALE	TX
8450	PPS INDUSTRIES, INC.	NATRIUM	PA
8460	PPS INDUSTRIES, INC.	TORRANCE	WV
8470	PPS INDUSTRIES, INC.	EAST POINT	CA
8480	PPS INDUSTRIES, INC.	CIRCLEVILLE	GA
8490	PPS INDUSTRIES, INC.	HOUSTON	OH
			TX

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPR NUMBER	COMPANY NAME	CITY	STATE
8500	PPG INDUSTRIES, INC.	OAK CREEK	WI
8510	PRATT & LAMBERT, INC.	BUFFALO	NY
8520	PROCTER & GAMBLE CO., THE	PORT IVORY	NY
8530	PROCTER & GAMBLE CO., THE	LONG BEACH	CA
8540	PROCTER & GAMBLE CO., THE	SACRAMENTO	CA
8550	PROCTER & GAMBLE CO., THE	CHICAGO	IL
8560	PROCTER & GAMBLE CO., THE	KANSAS CITY	KS
8570	PROCTER & GAMBLE CO., THE	BALTIMORE	MD
8580	PROCTER & GAMBLE CO., THE	IVORYDALE	OH
8590	BUCKEYE CELLULOSE CORP., THE	MEMPHIS	TN
8600	PROCTER & GAMBLE CO., THE	DALLAS	TX
8610	PRODUCTS RESEARCH & CHEM. CORP.	GLENDAL	CA
8620	PUBLICIZER INDUSTRIES INC.	GRETNA	LA
8630	PUBLICIZER INDUSTRIES INC.	PHILADELPHIA	PA
8640	PUERTO RICO OLEFINS CO.	PENUELAS	PR
8650	PUREX CORP.	CARSON	CA
8660	PUREX CORP.	OMAHA	NE
8670	PUREX CORP.	BRISTOL	PA
8680	PVO INTERNATIONAL, INC.	BOONTON	PA
8690	QUAKER OATS CO., THE	BELLE GLADE	NJ
8700	QUAKER OATS CO., THE	CEDAR RAPIDS	FL
8710	QUAKER OATS CO., THE	ONAHA	IA
8720	QUAKER OATS CO., THE	MEMPHIS	NE
8730	QUAKER OATS CO., THE	PASADENA	TN
8740	QUAKER OATS CO., THE	CORPUS CHRISTI	TX
8750	QUAKER OATS CO., THE	ARDSLEY	TX
8760	QUAKER OATS CO., THE	WILMINGTON	NY
8770	R.S.A. CORP.	STRATFORD	MA
8780	RAFFI AND SWANSON, INC.	EVANSVILLE	CT
8790	RAYBESTOS-MANHATTAN, INC.	CORNELIUS	IN
8795	RED SPOT PAINT & VARNISH CO., INC.	AZUSA	NC
8796	REEVES BROS. INC.	STANFORD	CA
8800	REICHOLD CHEM., INC.	CHESNOLD	CA
8810	REICHOLD CHEM., INC.	ANDOVER	CT
8820	REICHOLD CHEM., INC.	DETROIT	DE
8830	REICHOLD POLYMERS INC.	GULFPORT	MA
8840	REICHOLD CHEM., INC.		MI
8850	REICHOLD CHEM., INC.		MS
8860	REICHOLD CHEM., INC.		

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

OCPR NUMBER	COMPANY NAME	CITY	STATE
8870	REICHOLD CHEMS., INC.	CARTERET	NJ
8880	REICHOLD CHEMS., INC.	NIAGARA FALLS	NY
8890	REICHOLD CHEMS., INC.	SEWICKLEY	PA
8900	REICHOLD CHEMS., INC.	RIO PIEDRAS	PR
8910	REICHOLD CHEMS., INC.	CHARLOTTE	NC
8920	REICHOLD CHEMS., INC.	TUSCALOOSA	AL
8930	REICHOLD CHEMS., INC.	WALVERN	AR
8940	REICHOLD CHEMS., INC.	MORRIS	IL
8950	REICHOLD CHEMS., INC.	KANSAS CITY	KS
8960	REICHOLD CHEMS., INC.	MONCURE	NC
8970	REICHOLD CHEMS., INC.	ELIZABETH	NJ
8980	REICHOLD CHEMS., INC.	ST. HELENS	OR
8990	REICHOLD CHEMS., INC.	WHITE CITY	OR
9000	REICHOLD CHEMS., INC.	HAMPTON	SC
9010	REICHOLD CHEMS., INC.	AUSTIN	TX
9020	REICHOLD CHEMS., INC.	HOUSTON	TX
9030	REICHOLD CHEMS., INC.	JACKSONVILLE	FL
9040	REICHOLD CHEMS., INC.	TACOMA	WA
9050	REICHOLD CHEMS., INC.	GRANITE CITY	IL
9060	REICHOLD CHEMS., INC.	INDIANAPOLIS	IN
9070	REICHOLD CHEMS., INC.	CLEVELAND	OH
9080	REICHOLD CHEMS., INC.	LOUISVILLE	KY
9090	REICHOLD CHEMS., INC.	NEW BERN	NC
9100	REICHOLD CHEMS., INC.	MASSILLON	OH
9110	REICHOLD CHEMS., INC.	GADSDEN	AL
9120	REICHOLD CHEMS., INC.	THOMAS	AL
9130	REICHOLD CHEMS., INC.	CHICAGO	IL
9140	REICHOLD CHEMS., INC.	WARREN	OH
9150	REICHOLD CHEMS., INC.	CLEVELAND	OH
9160	REICHOLD CHEMS., INC.	YOUNGSTOWN	OH
9170	REICHOLD CHEMS., INC.	LINDEN	NJ
9180	REICHOLD CHEMS., INC.	FREEPORT	TX
9190	REICHOLD CHEMS., INC.	WEST HAVEN	CT
9200	REICHOLD CHEMS., INC.	PATERSON	NJ
		PHILLIPSBURG	NJ
		RICHMOND	CA
		GUAYANILLA	PR

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPR NUMBER	COMPANY NAME	CITY	STATE
9210	RIEDEL TEXTILE CORP.	WARE SHOALS	SC
9220	RILSAN CORP.	BIRDSBORO	PA
9230	RITTER CHEM. CO., INC.	AMSTERDAM	NY
9240	RIVERSIDE CHEM. CO.	PORT NECHES	TX
9250	ROBINSON-WASHER CO., INC.	MANARONECK	NY
9270	ROCKLAND INDUSTRIES, INC.	MIDDLEBORO	MA
9275	ROCKWELL INTERNATIONAL CORP.	ASHTABULA	OH
9280	ROGERS CORP.	MANCHESTER	CT
9290	ROHM AND HAAS CALIFORNIA INC.	HAYWARD	CA
9300	ROHM AND HAAS CO.	FAYETTEVILLE	NC
9310	ROHM AND HAAS CO.	CROYDON	PA
9320	ROHM AND HAAS KENTUCKY INC.	LOUISVILLE	KY
9330	ROHM AND HAAS CO.	BRISTOL	PA
9340	ROHM AND HAAS CO.	PHILADELPHIA	PA
9350	ROHM AND HAAS TENNESSEE INC.	KNOXVILLE	TN
9360	ROHM AND HAAS TEXAS INC.	DEER PARK	TX
9370	RUBICON CHEMICALS INC.	GEISMAR	LA
9380	SALSBURY LABS.	CHARLES CITY	IA
9390	SAPOLIN PAINTS, INC.	WILMINGTON	NC
9395	SARUEL BINGHAM CO.	BROOKLYN	NY
9400	SARTOMER INDUSTRIES INC.	FRANKLIN PARK	IL
9410	S. C. JOHNSON & SON, INC.	WEST CHESTER	PA
9420	SCHENECTADY CHEMICALS, INC.	MACINE	WI
9430	SCHENECTADY CHEMICALS, INC.	SCHENECTADY	NY
9440	SCHENECTADY CHEMICALS, INC.	OSTER CREEK	TX
9450	SCHOLLER BROS. INC.	ROTTERDAM JUNCTION	NY
9460	SCM CORP.	ELMOOD	NJ
9470	SCM CORP.	SAN FRANCISCO	CA
9480	SCM CORP.	CHICAGO	IL
9500	SCM CORP.	HURON	OH
9510	SCOTT PAPER CO.	READING	PA
9520	SCOTT PAPER CO.	MOBILE	AL
9525	SCOTT PAPER CO.	EDDYSTONE	PA
9530	SCOTT PAPER CO.	FORT EDWARD	NY
9535	SCOTT PAPER CO.	FORT WAYNE	IN
9540	SCOTT PAPER CO.	CHESTER	PA
9550	SCOTT PAPER CO.	EVERETT	WA

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

CCPDR NUMBER	COMPANY NAME	CITY	STATE
9560	SCOTT PAPER CO.	MARINETTE	WI
9570	SEYON CO.	WILMINGTON	DE
9580	SHAKESPEARE CO.	COLUMBIA	SC
9590	SHARON STEEL COMP.	FAIRMONT	WV
9600	SHELL CHEM. CO.	WOODBURY	NJ
9610	SHELL CHEM. CO.	BELPRE	OH
9620	SHELL CHEM. CO.	DOMINGUEZ	CA
9625	SHELL CHEM. CO.	WILMINGTON	CA
9630	SHELL CHEM. CO.	MARTINEZ	CA
9640	SHELL CHEM. CO.	WOOD RIVER	IL
9650	SHELL CHEM. CO.	GEISHAR	LA
9660	SHELL CHEM. CO.	NORCO	LA
9670	SHELL CHEM. CO.	DEER PARK	TX
9680	SHELL CHEM. CO.	ODESSA	TX
9690	SHELLER-GLOBE CORP.	TUPELO	MS
9700	SHERMANGO INC.	NEVILLE ISLAND	PA
9710	SHERWIN-WILLIAMS CO., THE	CINCINNATI	OH
9720	SHERWIN-WILLIAMS CO., THE	EMERYVILLE	OH
9730	SHERWIN-WILLIAMS CO., THE	ST. BERNARD	CA
9740	SHERWIN-WILLIAMS CO., THE	CHICAGO	IL
9750	SHERWIN-WILLIAMS CO., THE	NEWARK	NJ
9760	SHERWIN-WILLIAMS CO., THE	BARLAND	TX
9770	SHERWIN-WILLIAMS CO., THE	CLEVELAND	OH
9780	SHERWIN-WILLIAMS CO., THE	FREEMPORT	TX
9790	SHERWIN-WILLIAMS CO., THE	POCATELLO	ID
9800	SHERWIN-WILLIAMS CO., THE	PORTLAND	OR
9810	SHERWIN-WILLIAMS CO., THE	ARCATA	CA
9820	SHERWIN-WILLIAMS CO., THE	JAMAICA	NY
9830	SHERWIN-WILLIAMS CO., THE	SILLETTE	NJ
9840	SHERWIN-WILLIAMS CO., THE	DEER PARK	TX
9850	SHERWIN-WILLIAMS CO., THE	WEST WARWICK	RI
9860	SHERWIN-WILLIAMS CO., THE	SILSBEE	TX
9870	SHERWIN-WILLIAMS CO., THE	LEMOIR	NC
9880	SHERWIN-WILLIAMS CO., THE	IMMINGDALE	CA
9890	SHERWIN-WILLIAMS CO., THE	NEW BRUNSWICK	NJ
9900	SHERWIN-WILLIAMS CO., THE	DELAWARE CITY	DE
9910	SHERWIN-WILLIAMS CO., THE	KEARNY	NJ
9920	SHERWIN-WILLIAMS CO., THE		
9930	SHERWIN-WILLIAMS CO., THE		

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCOR NUMBER	COMPANY NAME	CITY	STATE
9940	CHEVRON CHEM. CO.	EL SEGUNDO	CA
9950	AMOCO CHEMS. CORP.	DECATUR	AL
9960	AMOCO CHEMS. CORP.	JOLIET	IL
9970	AMOCO CHEMS. CORP.	WOOD RIVER	IL
9980	AMOCO CHEMS. CORP.	CHOCOLATE BAYOU	TX
10000	AMOCO CHEMS. CORP.	YORKTOWN	VA
10010	AMOCO OIL CO.	TEXAS CITY	TX
10020	VISTRON CORP.	LIMA	OH
10031	VISTRON CORP.	COVINGTON	KY
10033	AMOCO CHEMS. CORP.	HAWTHORNE	CA
10040	AMOCO CHEMS. CORP.	TORRANCE	CA
10050	AMOCO CHEMS. CORP.	NEW CASTLE	DE
10060	AMOCO CHEMS. CORP.	WILLOW SPRINGS	IL
10070	AMOCO CHEMS. CORP.	SUGAR CREEK	MO
10090	CHEVRON CHEM. CO.	RICHMOND	CA
10100	CHEVRON CHEM. CO.	BUAYAMA	PR
10105	CHEVRON CHEM. CO.	PASCAGOULA	MS
10110	STAUFFER CHEMICAL CO.	SAN JOSE	CA
10120	STAUFFER CHEMICAL CO.	ST. GABRIEL	LA
10130	STAUFFER CHEMICAL CO.	COLD CREEK	LA
10140	STAUFFER CHEMICAL CO.	LE MOYNE	AL
10150	STAUFFER CHEMICAL CO.	CARSON	AL
10160	STAUFFER CHEMICAL CO.	DELAWARE CITY	CA
10170	STAUFFER CHEMICAL CO.	LOUISVILLE	DE
10180	STAUFFER CHEMICAL CO.	EDISON	KY
10190	STAUFFER CHEMICAL CO.	HENDERSON	NJ
10210	CALHIO CHEMS., INC.	PERRY	NV
10220	STEPAN CHEMICAL CO.	ANAHEIM	OH
10230	STEPAN CHEMICAL CO.	ELWOOD	CA
10240	STEPAN CHEMICAL CO.	FIELDSBORO	IL
10250	STEPAN CHEMICAL CO.	MAYWOOD	NJ
10260	STERLING DRUG INC.	TRENTON	NJ
10280	STERLING DRUG INC.	CINCINNATI	OH
10290	NILOK CHEMS., INC.	MEMPHIS	TN
10300	STERLING PLASTICS CORP.	ORANGE	CA
10310	STERLING PLASTICS CORP.	WINDSOR	NJ
10320	STIMSON LUMBER COMPANY	ANACORTES	MA

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCFOR NUMBER	COMPANY NAME	CITY	STATE
10340	ST. CROIX PETROCHEMICAL CORP.	ST. CROIX	VI
10350	SULLIVAN CHEM. COATINGS	CHICAGO	IL
10360	SUN CHEM. CORP.	CHESTER	SC
10370	SUN PETROLEUM PRODUCTS CO.	CORPUS CHRISTI	TX
10380	SUN PETROLEUM PRODUCTS CO.	TULSA	OK
10390	SUN PETROLEUM PRODUCTS CO.	TOLEDO	OH
10400	SUN PETROLEUM PRODUCTS CO.	DUNCAN	OK
10410	SUN PETROLEUM PRODUCTS CO.	TULSA	OK
10420	SUN PETROLEUM PRODUCTS CO.	MARCUS HOOK	PA
10440	SUNOLIN CHEM. CO.	CLAYMONT	DE
10450	SWS SILICONES CORP.	ADRIAN	MI
10460	SYBRON CORP.	ROMULUS	MI
10470	SYBRON CORP.	BIRMINGHAM	NJ
10480	SYBRON CORP.	HALEDON	NJ
10490	SYBRON CORP.	LYNDHURST	NJ
10500	SYNCON RESINS INC.	CHICAGO	IL
10510	SYNCON RESINS INC.	SOUTH KEARNY	IL
10520	SHANCO PLASTICS & CHEMS.	KENILWORTH	NJ
10525	SYNRES CHEM. CORP.	ANAHAIM	CA
10527	SYNRES CHEM. CORP.	ELKHART	IN
10540	SYNTEX CORP.	VERONA	MO
10550	SYNTEX CORP.	LAVERNE	CA
10560	SYNTHANE-TAYLOR CORP.	NEWPORT	CA
10570	SYNTHANE-TAYLOR CORP.	BEZWOOD	PA
10575	SYNTHRON, INC.	ASHTON	RI
10577	SYNTHRON, INC.	MORGANTON	NC
10590	TEKHOR APEX CO.	HEBRONVILLE	MA
10600	TELEDYNE MCCORMICK SELPH	HOLLISTER	CA
10610	TENNECO INC.	CHARLOTTE	LA
10615	TENNECO INC.	CARLSTADT	NJ
10620	TENNECO INC.	BURLINGTON	NJ
10625	TENNECO INC.	CHICAGO	IL
10630	TENNECO INC.	FLEMINGTON	NJ
10635	TENNECO INC.	EAST RUTHERFORD	NJ
10640	TENNECO INC.	FORDS	NJ
10645	TENNECO INC.	HAZLETON	PA
10650	TENNECO INC.	BARFIELD	NJ

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
10655	TENNECO INC.	ROCKAWAY	NJ
10660	PETRO-TEX CHEMICAL CORP.	HOUSTON	TX
10670	TENNECO INC.	PASADENA	TX
10680	TENNECO INC.	PASCATAWAY	NJ
10690	TENNESSEE VALLEY AUTHORITY	MUSCLE SHOALS	AL
10700	TERRA CHEM. INTERNATIONAL, INC.	PORT NEAL	IA
10710	TEXACO INC.	WESTVILLE	NJ
10720	TEXACO INC.	PORT ARTHUR	TX
10730	TEXAS CITY REFINING, INC.	TEXAS CITY	TX
10750	TEXFI INDUST., INC.	ASHEBORO	NC
10760	TEXFI INDUST., INC.	NEW BERN	NC
10770	TEXTRON INC.	SAN CARLOS	CA
10775	TEXTRON INC.	BALTIMORE	MD
10780	TEXTRON INC.	BELLEVUE	OH
10785	TEXTRON INC.	CAIRO	IL
10786	TEXTRON INC.	ST. LOUIS	MO
10790	TEXTRON INC.	CALVERT CITY	MO
10794	THIOKOL CORP.	WAYNESSBORO	VA
10803	THIOKOL CORP.	TRENTON	NJ
10810	TOMS RIVER CHEMICAL CORP.	TOMS RIVER	NJ
10815	TOSCO CORP.	EL DORADO	AR
10817	TOSCO CORP.	MARTINEZ	CA
10820	TRANCOA CHEM. CORP.	READING	PA
10830	TRIAD CHEMICAL	DONALDSONVILLE	LA
10845	SUNBURST YARNS INC.	AFTON	VA
10850	ATLAS PONDER CO.	JOPLIN	MO
10860	U. S. OIL CO.	EAST PROVIDENCE	RI
10870	SOUTHERN U. S. CHEM. CO., INC.	ROCK HILL	SC
10880	UNIBER & CO., INC.	TOTONA	NJ
10890	UNION CAMP CORP.	JACKSONVILLE	FL
10910	UNION CAMP CORP.	DOVER	OH
10920	UNION CARBIDE CORP.	ELK GROVE	CA
10930	UNION CARBIDE CORP.	SISTERSVILLE	WV
10940	UNION CARBIDE CORP.	TORRANCE	CA
10950	UNION CARBIDE CORP.	TAFT	LA
10960	UNION CARBIDE CORP.	BOUND BROOK	NJ
10970	UNION CARBIDE CORP.	NIAGARA FALLS	NY

ORGANIC CHEMICAL PRODUCERS DATA BASE

CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
10980	UNION CARBIDE CORP.	ASHTABULA	OH
10990	UNION CARBIDE CORP.	MARIETTA	OH
11000	UNION CARBIDE CARIBE, INC.	PENUELAS	PR
11010	UNION CARBIDE CORP.	BROWNSVILLE	TX
11020	UNION CARBIDE CORP.	SEADRIET	TX
11030	UNION CARBIDE CORP.	TEXAS CITY	TX
11040	UNION CARBIDE CORP.	INSTITUTE AND SOUTH CHARLESTON	WV
11050	UNION OIL CO. OF CALIFORNIA	KENAI	AK
11060	UNION OIL CO. OF CALIFORNIA	LA MIRADA	CA
11065	UNION OIL CO. OF CALIFORNIA	BREA	CA
11070	UNION OIL CO. OF CALIFORNIA	LEMON	IL
11080	UNION OIL CO. OF CALIFORNIA	BEAUMONT	TX
11090	UNION OIL CO. OF CALIFORNIA	CORPUS CHRISTI	TX
11100	CHAMPLIN PETROLEUM CO.	BATON ROUGE	LA
11110	UNIROVAL, INC.	SHELBYVILLE	LA
11115	UNIROVAL, INC.	SCOTTS BLUFF	LA
11120	UNIROVAL, INC.	MAUGATUCK	CT
11140	UNIROVAL, INC.	GEISMAR	LA
11150	UNIROVAL, INC.	BASTONIA	NC
11155	UNIROVAL, INC.	LANSELY	SC
11170	UNITED MERCHANTS & MANUFACTURERS, INC.	ELKHART	IN
11171	UNITED MERCHANTS & MANUFACTURERS, INC.	MIAMI	FL
11172	UNITED MERCHANTS & MANUFACTURERS, INC.	LOS ANGELES	CA
11173	UNITED MERCHANTS & MANUFACTURERS, INC.	ROSEMONT	IL
11180	UNITED STATES GYPSUM	TRENTON	NJ
11190	UNITED STATES GYPSUM	MASSILLON	OH
11200	JIM WALTER CORPORATION	CHEROKEE	AL
11210	UNITED STATES STEEL CORP.	DULUTH	MM
11215	UNITED STATES STEEL CORP.	FAIRFIELD	AL
11220	UNITED STATES STEEL CORP.	GARY	IN
11230	UNITED STATES STEEL CORP.	LORAIN	OH
11235	UNITED STATES STEEL CORP.	HAVENHILL	OH
11240	UNITED STATES STEEL CORP.	CLAINTON	PA
11250	UNITED STATES STEEL CORP.	FAIRLESS HILLS	PA
11260	UNITED STATES STEEL CORP.	NEVILLE ISLAND	PA
11270	UNITED STATES STEEL CORP.	GENEVA	UT
11280	UNITED STATES STEEL CORP.		

ORGANIC CHEMICAL PRODUCERS DATA BASE
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OCPOB NUMBER	COMPANY NAME	CITY	STATE
11290	ESSEX INTERNATIONAL INC.	MUNCIE	IN
11300	UNITED-ERIE, INC.	ERIC	PA
11310	PACIFIC RESINS & CHEMS., INC.	RICHMOND	CA
11315	PACIFIC RESINS & CHEMS., INC.	PEACHTREE CITY	GA
11320	PACIFIC RESINS & CHEMS., INC.	NEWARK	OH
11330	PACIFIC RESINS & CHEMS., INC.	EUGENE	OR
11335	PACIFIC RESINS & CHEMS., INC.	TACOMA	WA
11340	PACIFIC RESINS & CHEMS., INC.	PORTLAND	OR
11370	UOP INC.	SHREVEPORT	LA
11380	UOP INC.	EAST RUTHERFORD	NJ
11390	UPJOHN CO., THE	LA PORTE	TX
11395	UPJOHN CO., THE	NORTH HAVEN	CT
11398	UPJOHN CO., THE	FAIRBANKS	AK
11399	UPJOHN CO., THE	TORRANCE	CA
11400	VALENTINE SUGARS, INC.	LOCKPORT	LA
11410	VALLEY NITROGEN PRODUCERS, INC.	EL CENTRO	CA
11420	VALLEY NITROGEN PRODUCERS, INC.	HELM	CA
11430	VALLEY NITROGEN PRODUCERS, INC.	HERCULES	CA
11435	VALSPAR CORP.	CHICAGO	IL
11440	VALSPAR CORP.	ROCKFORD	IL
11450	VAN DE MARK CHEM. CO., INC.	LOCKPORT	NY
11460	TRANSVAAL, INC.	JACKSONVILLE	AR
11470	VICKSBURG CHEM. CO.	VICKSBURG	MS
11480	VIRGINIA CHEMICALS INC.	PORTSMOUTH	VA
11490	VULCAN MATERIALS CO.	WICHITA	KS
11500	VULCAN MATERIALS CO.	GEISHAR	LA
11505	WALL INDUST., INC.	BEVERLY	NJ
11510	W. R. GRACE & CO.	NASHUA	NH
11520	W. R. GRACE & CO.	FORDS	NJ
11530	W. R. GRACE & CO.	MEMPHIS	TN
11540	WARE CHEMICALS CORP.	STRATFORD	CT
11555	PARKE, DAVIS & CO.	HOLLAND	MI
11560	WELLMAN INDUST., INC.	JOHNSONVILLE	SC
11570	WEST COAST ADHESIVES CO.	PORTLAND	OR
11580	WESTINGHOUSE ELECTRIC CORP.	WEST MIFFLIN	PA
11590	WEYERHAEUSER CO.	LONGVIEW	WA
11600	WEYERHAEUSER CO.	MARSHFIELD	WI

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCFDB NUMBER	COMPANY NAME	CITY	STATE
11603	CONAP, INC.	OLEAN	NY
11605	WHEELING-PITTSBURGH STEEL CORP.	EAST STEUBENVILLE	WV
11610	WHEELING-PITTSBURGH STEEL CORP.	MONESSEN	PA
11620	WHITE CHEMICAL CORP.	BAYONNE	NJ
11630	WHITTAKER CORP.	WOOSTER	OH
11635	WHITTAKER CORP.	MINNEAPOLIS	MN
11637	WHITTAKER CORP.	LENOIR	NC
11640	AGRICO CHEM. CO.	BLYTHEVILLE	AR
11650	AGRICO CHEM. CO.	DONALDSONVILLE	LA
11660	AGRICO CHEM. CO.	VERDIGRIS	OK
11670	AGRICO CHEM. CO.	CLEARING	IL
11675	WITCO CHEM. CORP.	NEW CASTLE	DE
11680	WITCO CHEM. CORP.	PATERSON	NJ
11690	WITCO CHEM. CORP.	PARSON	CA
11700	WITCO CHEM. CORP.	LYNNWOOD	CA
11710	WITCO CHEM. CORP.	RICHMOND	CA
11720	WITCO CHEM. CORP.	PERTH AMBOY	NJ
11740	WOBURN CHEM. CO.	PATERSON	NJ
11750	WOONSOCKET COLOR & CHEMICAL CO.	WOONSOCKET	RI
11755	W. R. GRACE & CO.	COLTON	CA
11760	W. R. GRACE & CO.	OWENSBORO	KY
11761	W. R. GRACE & CO.	BARTON	FL
11763	W. R. GRACE & CO.	JACKSONVILLE	AR
11765	W. R. GRACE & CO.	LINDEN	NJ
11767	W. R. GRACE & CO.	SWANTON	OH
11770	W. R. GRACE & CO.	SOUTH ACTON	MA
11780	WRIGHT CHEMICAL CORP.	ACME	NC
11790	YENKIN-MAJESTIC PAINT CORP.	COLUMBUS	OH
11800	UNITED FOAM CORP.	ALLEGENTOWN	PA
11810	UNITED FOAM CORP.	BOISE	ID
11820	UNITED FOAM CORP.	BREMEN	IN
11830	UNITED FOAM CORP.	CLEVELAND	OH
11840	UNITED FOAM CORP.	COMPTON	CA
11850	UNITED FOAM CORP.	COUNTRYSIDE	IL
11860	UNITED FOAM CORP.	DALLAS	TX
11870	UNITED FOAM CORP.	DENVER	CO
11880	UNITED FOAM CORP.	FORT SMITH	AR

ORGANIC CHEMICAL PRODUCERS DATA BASE
CHEMICAL PRODUCERS

OCPOB NUMBER	COMPANY NAME	CITY	STATE
11890	UNITED FOAM CORP.	FRANKLIN	NJ
11900	UNITED FOAM CORP.	FRESNO	CA
11910	UNITED FOAM CORP.	HAYWARD	CA
11920	UNITED FOAM CORP.	HONOLULU	HI
11930	UNITED FOAM CORP.	KENT	WA
11940	UNITED FOAM CORP.	LOUISVILLE	KY
11950	UNITED FOAM CORP.	PHOENIX	AZ
11960	UNITED FOAM CORP.	PORTLAND	OR
11970	UNITED FOAM CORP.	SACRAMENTO	CA
11980	UNITED FOAM CORP.	SALT LAKE CITY	UT
11990	UNITED FOAM CORP.	SHAWNEE	OK
12000	U. S. OIL CO.	EAST PROVIDENCE	RI
12010	SOUTHERN U. S. CHEMICAL CO., INC.	ROCK HILL	SC

APPENDIX C

ORGANIC CHEMICAL PRODUCERS DATA BASE

RIVER BASIN CODES

USGS NUMBER	RIVER BASIN
1040001	UPPER ANDROSCOGGIN
1040002	LOWER ANDROSCOGGIN
1040003	PISCATAQUA - SALMON FALLS
1070002	MERRIMACK
1070004	NASHUA
1070005	CONCORD
1080201	MIDDLE CONNECTICUT
1080204	CHICOPPEE
1080205	LOWER CONNECTICUT
1090001	CHARLES
1090002	CAPE COD
1090003	BLACKSTONE
1090004	MARAGANSETT
1100001	GUINEBAUG
1100003	THAMES
1100004	GUINNIPIAC
1100005	HOUSATONIC
1100006	SAUBATUCK
2010002	OTTER
2020003	UPPER MIDDLE HUDSON
2020004	MOHAWK
2020006	LOWER MIDDLE HUDSON
2020007	WALLKILL
2030101	LOWER HUDSON
2030102	WESTCHESTER
2030103	HACKENSACK - PASSAIC
2030104	SANDY HOOK - STATEN ISLAND
2030105	RARITAN
2030201	NORTHERN LONG ISLAND
2030202	SOUTHERN LONG ISLAND
2040104	UPPER MIDDLE DELAWARE
2040105	LOWER MIDDLE DELAWARE
2040106	LEHIGH
2040201	CROSSWICKS - NESHAMINY
2040202	LOWER DELAWARE
2040203	SCHUYLKILL
2040205	BRANDYWINE - CHRISTINA
2040206	CONANSEY - MAURICE

ORGANIC CHEMICAL PRODUCERS DATA BASE
RIVER BASIN CODES

USGS NUMBER	RIVER BASIN
2040207	BROADKILL-SMYRNA
2040301	MULLICA - TOMS
2040302	GREAT EGG HARBOR
2050101	UPPER SUSQUEHANNA
2050102	CHENANGO
2050204	BALD EAGLE
2050304	LOWER JUNIATA
2050306	LOWER SUSQUEHANNA
2060002	CHESTER - SASSAFRAS
2060003	GUNPOWDER - PATAPSCO
2060006	NANTICOME
2070005	SOUTH FORK SHENANDOAH
2080107	YORK
2080206	LOWER JAMES
2080208	HAMPTON ROADS
3010103	UPPER DAN
3010104	LOWER DAN
3010105	BANISTER
3010107	LOWER ROANOKE
3010203	CHOWAN
3010204	NEHERRIN
3020201	UPPER NEUSE
3020202	MIDDLE NEUSE
3020204	LOWER NEUSE
3030002	HAW
3030003	DEEP
3030004	UPPER CAPE FEAR
3030005	LOWER CAPE FEAR
3040103	LOWER YADKIN
3040104	UPPER PEE DEE
3040105	ROCKY
3040201	LOWER PEE DEE
3050101	UPPER CATAWBA
3050103	LOWER CATAWBA
3050104	WATERLEE
3050105	UPPER BROAD
3050106	LOWER BROAD
3050109	LOWER SAVANNAH

ORGANIC CHEMICAL PRODUCERS DATA BASE
RIVER BASIN CODES

USGS NUMBER	RIVER BASIN
3050208	BROAD-ST. HELENA
3060101	SENECA
3060103	UPPER SAVANNAH
3060106	MIDDLE SAVANNAH
3060107	STEVENS
3060109	LOWER SAVANNAH
3070103	UPPER OCHULGEE
3070203	CUMBERLAND-ST. SIMONS
3080103	LOWER ST. JOHNS
3090202	EVERGLADES
3100101	PEACE
3100205	HILLSBOROUGH
3130001	UPPER CHATTAHOOCHEE
3130002	UPPER MIDDLE CHATTAHOOCHEE
3130006	MIDDLE FLINT
3130008	LOWER FLINT
3140104	BLACKWATER
3140105	PENSACOLA BAY
3150101	CONASAUGA
3150105	UPPER COOSA
3150106	MIDDLE COOSA
3160101	UPPER TOMBIGREE
3160102	TOWN
3160111	LOCUST
3160112	UPPER BLACK WARRIOR
3160201	LOWER - MIDDLE TOMBIGREE
3160203	LOWER TOMBIGREE
3160204	MOBILE-TENSAN
3170004	UPPER LEAF
3170005	LOWER LEAF
3170006	PASCAGOULA
3170009	MISSISSIPPI COASTAL
3180001	UPPER PEARL
3180004	LOWER PEARL
4030101	MANITOWOC - SHEBOYGAN
4030105	PESHTIGO
4030202	WOLF
4040001	LITTLE CALUMET-GALIE

ORGANIC CHEMICAL PRODUCERS DATA BASE

RIVER BASIN CODES

USGS NUMBER	RIVER BASIN
4040002	SOUTHWESTERN LAKE MICHIGAN
4040003	MILWAUKEE
4050001	ST. JOSEPH
4050002	BLACK - MACATAMA
4050003	KALAMAZOO
4050004	UPPER GRAND
4050006	LOWER GRAND
4060101	MARQUETTE - WHITE
4060200	LAKE MICHIGAN
4080104	LOWER SOUTHWESTERN LAKE HURON
4080201	YITTABAWASEE
4080202	PINE
4080204	FLINT
4080206	SAGINAW
4090003	CLINTON
4090004	DETROIT
4100002	RAISIN
4100004	ST. MARYS
4100007	AUGLAIZE
4100009	LOWER MAUMEE
4100010	CEDAR-PORTRAGE
4100011	SANDUSKY
4100012	HURON-VERMILION
4110001	BLACK-ROCKY
4110002	CUYAHOGA
4110003	ASHTABULA-CHAGRIN
4110004	GRAND
4120103	BUFFALO - EIGHTEENMILE
4120104	NIAGARA
4130001	SOUTHWESTERN LAKE ONTARIO
4130003	LOWER GENESEE
5010001	UPPER ALLEGHENY
5010003	UPPER MIDDLE ALLEGHENY
5010004	FRENCH
5010006	LOWER MIDDLE ALLEGHENY
5010007	CONEMAUGH
5010009	LOWER ALLEGHENY
5020003	UPPER MONONGAHELA

ORGANIC CHEMICAL PRODUCERS DATA BASE
RIVER BASIN CODES

USGS NUMBER	RIVER BASIN
5020005	LOWER MONONGAHELA
5030101	UPPER OHIO
5030103	MAHONING
5030106	MIDDLE UPPER OHIO
5030201	LITTLE MUSKINGUM - MIDDLE ISLAND
5030202	LOWER UPPER OHIO
5030204	HOCKING
5040001	TUSCARAWAS
5040003	WALHONDING
5040004	MUSKINGUM
5040006	LICKING
5050002	MIDDLE NEW
5050006	UPPER KANAWHA
5050008	LOWER KANAWHA
5060001	UPPER SCIOTO
5060002	LOWER SCIOTO
5070204	BIG SANDY
5080001	UPPER GREAT MIAMI
5080002	LOWER GREAT MIAMI
5090103	LITTLE SCIOTO - TYGARTS
5090202	LITTLE MIAMI
5090203	LOWER MIDDLE OHIO
5100203	LOWER KENTUCKY
5110003	MIDDLE GREEN
5120108	MIDDLE WABASH
5120109	VERMILION
5120111	LOWER MIDDLE WABASH
5120112	EMBARRAS
5120201	UPPER WHITE
5140101	SILVER - LITTLE KENTUCKY
5140104	BLUE - SINKING
5140202	HIGHLAND PIGEON
6010102	SOUTH FORK HOLSTON
6010103	NATAUGA
6010105	UPPER FRENCH BROAD
6010106	PIGEON
6020001	UPPER MIDDLE TENNESSEE
6020003	OCOE

ORGANIC CHEMICAL PRODUCERS DATA BASE
RIVER BASIN CODES

USGS NUMBER	RIVER BASIN
6030001	GUNTERSVILLE LAKE
6030002	WHEELER LAKE
6030005	PICKWICK LAKE
6030006	BEAR
6040002	UPPER DUCK
6040006	LOWER TENNESSEE
7010206	TWIN CITIES
7050002	FLAMBEAU
7060005	APPLE - PLUM
7080101	COPPERAS-DUCK
7080104	FLINT-HENDERSON
7080201	UPPER CEDAR
7090001	UPPER ROCK
7090002	CRAWFISH
7090005	LOWER ROCK
7090006	KISHWAUKEE
7110004	THE SNY
7110009	PERDUE-PIASA
7120001	KANKAKEE
7120003	CHICAGO
7120004	DES PLAINES
7120005	UPPER ILLINOIS
7120006	UPPER FOX
7120007	LOWER FOX
7130001	UPPER LOWER ILLINOIS
7150003	MIDDLE LOWER ILLINOIS
7150006	UPPER SANGAMON
7150011	LOWER ILLINOIS
7140101	CAHOKIA-JOACHIM
7140102	MERAMEC
7140104	BIG
801n203	SOUTH FORK OBION
8020203	LOWER ST. FRANCIS
8020204	LITTLE RIVER DITCHES
8020303	LOWER WHITE
8020402	RAYOU METO
8030206	UPPER YAZOO
8040102	UPPER OUAUCHITA

ORGANIC CHEMICAL PRODUCERS DATA BASE
RIVER BASIN CODES

USGS NUMBER	RIVER BASIN
8040201	UPPER LOWER OUACHITA
8040202	MIDDLE LOWER OUACHITA
8040207	LOWER OUACHITA
8040303	DUGDEMONA
8070202	AMITE
8070204	LAKE MAUREPAS
8070300	LOWER GRAND
8080103	VERMILION
8080201	HERMENTAU HEADWATERS
8080206	LOWER CALCASIEU
8090203	EASTERN LOUISIANA COASTAL
8090301	EAST CENTRAL LOUISIANA COASTAL
1019009	CROW
1023001	BLACKBIRD - SOLDIER
1023003	LITTLE SIOUX
1024001	INDEPENDENCE-SUGAR
10270104	LOWER KANSAS
10300101	UPPER LOWER MISSOURI
1102002	UPPER ARKANSAS
11030013	LOWER MIDDLE ARKANSAS
11030017	UPPER WALNUT RIVER
11070207	SPRING
11070209	LOWER NEOSHO
11090106	LOWER MIDDLE CANADIAN
11100301	MIDDLE NORTH CANADIAN
11100302	LOWER NORTH CANADIAN
11130208	NORTHERN BEAVER
11140203	LOGGY BAYOU
11140206	BAYOU PIERRE
11140305	LAKE O' THE PINES
12010002	MIDDLE SABINE
12010005	LOWER SABINE
12020001	UPPER NECHES
12020002	MIDDLE NECHES
12020003	LOWER NECHES
12030102	LOWER WEST FORK TRINITY
12030105	UPPER TRINITY
12030106	EAST FORK TRINITY

ORGANIC CHEMICAL PRODUCERS DATA BASE
RIVER BASIN CODES

USE\$ NUMBER	RIVER BASIN
12040102	SPRING
12040104	BUFFALO - SAN JACINTO
12040201	SABINE LAKE
12040203	NORTH GALVESTON BAY
12040204	WEST GALVESTON BAY
12040205	AUSTIN - OYSTER
12050005	RUNNING WATER DRAW
12060005	JOHNSON DRAW
12080007	BCALS
12090205	AUSTIN - TRAVIS LAKES
12090401	SAN BERNARD
12090402	EAST MATAGORDA BAY
12100204	LOWER GUADALUPE
12100403	EAST SAN ANTONIO BAY
12110202	SOUTH CORPUS CHRISTI BAY
12110204	SAN FERNANDO
12110208	SOUTH LAGUNA MADRE
15010015	LAS VEGAS WASH
15060106	LOWER SALT
16020204	JORDAN
17040208	PORTNEUF
17050114	LOWER BOISE
17060104	UPPER GRANDE RONDE
17070101	UPPER MIDDLE COLUMBIA
17080001	UPPER LOWER COLUMBIA
17080003	MIDDLE LOWER COLUMBIA
17090003	UPPER WILLAMETTE
17090007	MIDDLE WILLAMETTE
17090012	LOWER WILLAMETTE
17100304	COOS
17100308	MIDDLE ROGUE
17110002	STRAIT OF GEORGIA
17110013	DUNAMISH
18010102	MAD-REDWOOD
18010110	RUSSIAN
18020018	LOWER SACRAMENTO
18020023	AMERICAN
18030002	SOUTH FORK KERN

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ORGANIC CHEMICAL PRODUCERS DATA BASE RIVER BASIN CODES

USGS NUMBER	RIVER BASIN
18030003	LOWER KERN
18040002	FRESNO SLOUGH
18040007	LOWER SAN JOAQUIN
18050001	SUISUN BAY
18050002	SAN PABLO BAY
18050003	COYOTE
18050004	SAN FRANCISCO BAY
18060002	PAJARO
18070003	SANTA MONICA
18070004	LOS ANGELES
18070005	SAN GABRIEL
18070006	SAN JACINTO
18070007	SANTA ANA
18070008	MIDDLE SOUTH COASTAL
18100200	SALTON TROUGH
19050002	COOK INLET
20060000	GAHU
21010002	CIBUCO-GUAJAYACA
21010004	SOUTHERN PUERTO RICO
21010005	EASTER PUERTO RICO
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